

=> d his

(FILE 'REGISTRY' ENTERED AT 09:38:55 ON 10 JUL 2003)

DEL HIS Y
ACT CLAIM11/A

L1 STR
L2 (1475) SEA FILE=REGISTRY SSS FUL L1
L3 STR
L4 0 SEA FILE=REGISTRY SUB=L2 SSS FUL L3

ACT PATELCLS/A

L5 STR
L6 (1475) SEA FILE=REGISTRY SSS FUL L5
L7 STR
L8 904 SEA FILE=REGISTRY SUB=L6 SSS FUL L7

L9 71 S L8 AND NCNC2/ES
ACT PATELNH3/A

L10 STR
L11 (1475) SEA FILE=REGISTRY SSS FUL L10
L12 STR
L13 86 SEA FILE=REGISTRY SUB=L11 SSS FUL L12

ACT PATELAKN/A

L14 STR
L15 (1475) SEA FILE=REGISTRY SSS FUL L14
L16 STR
L17 6 SEA FILE=REGISTRY SUB=L15 SSS FUL L16

FILE 'HCAPLUS' ENTERED AT 09:41:42 ON 10 JUL 2003

L18 33 S L9/P OR L13/P
L19 4 S L17/P
L20 7 S L17

=> fil reg
FILE 'REGISTRY' ENTERED AT 09:42:42 ON 10 JUL 2003
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 8 JUL 2003 HIGHEST RN 544651-49-2
DICTIONARY FILE UPDATES: 8 JUL 2003 HIGHEST RN 544651-49-2

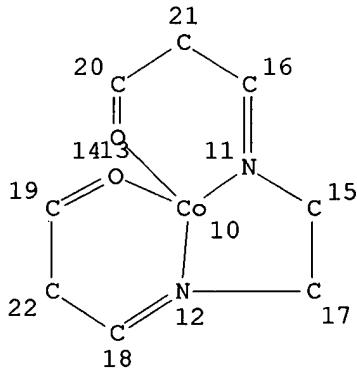
TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

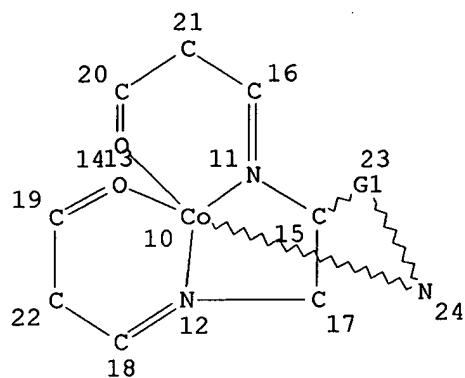
=> d que stat 14
L1 STR



NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE
L2 (1475)SEA FILE=REGISTRY SSS FUL L1
L3 STR



→ claim 11

REP G1=(1-8) CH2

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE

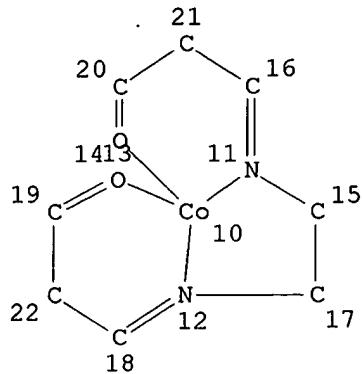
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100.0% PROCESSED 270 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

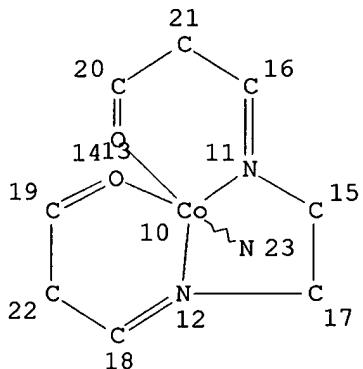
=> d que stat 19
 L5 STR



NODE ATTRIBUTES:
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 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE
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 L7 STR



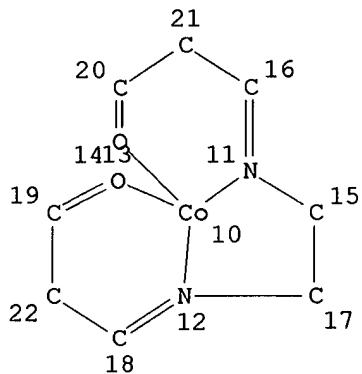
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 NSPEC IS RC AT 23
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE
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 L9 71 SEA FILE=REGISTRY ABB=ON PLU=ON L8 AND NCNC2/ES

↳ all imidazole rings

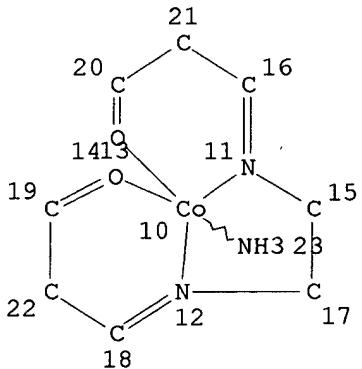
=> d que stat 113
 L10 STR



NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE
 L11 (1475) SEA FILE=REGISTRY SSS FUL L10
 L12 STR



NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 14

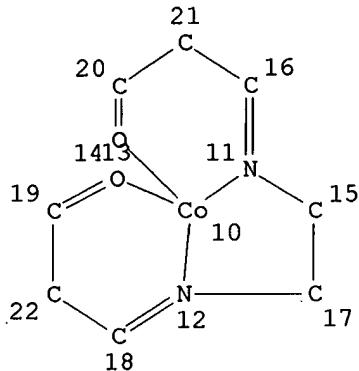
STEREO ATTRIBUTES: NONE
 L13 86 SEA FILE=REGISTRY SUB=L11 SSS FUL L12

100.0% PROCESSED 1475 ITERATIONS
 SEARCH TIME: 00.00.01

86 ANSWERS

Pratel 09/828,499

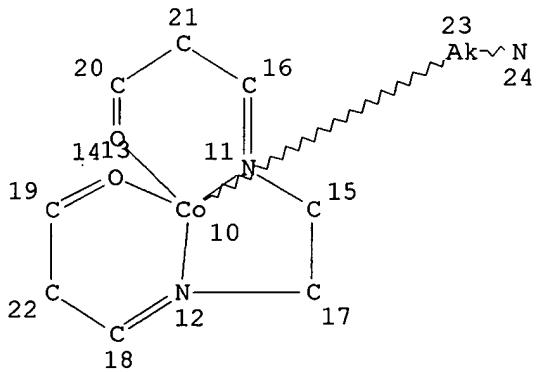
=> d que stat l17
 L14 STR



NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE
 L15 (1475) SEA FILE=REGISTRY SSS FUL L14
 L16 STR



NODE ATTRIBUTES:
 NSPEC IS RC AT 24
 CONNECT IS E2 RC AT 23
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE
 L17 6 SEA FILE=REGISTRY SUB=L15 SSS FUL L16

100.0% PROCESSED 1475 ITERATIONS

6 ANSWERS

SEARCH TIME: 00.00.01

=> fil hcaplus
FILE 'HCAPLUS' ENTERED AT 09:43:24 ON 10 JUL 2003
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FILE COVERS 1907 - 10 Jul 2003 VOL 139 ISS 2
FILE LAST UPDATED: 9 Jul 2003 (20030709/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

=> d his 118-

(FILE 'REGISTRY' ENTERED AT 09:38:55 ON 10 JUL 2003)

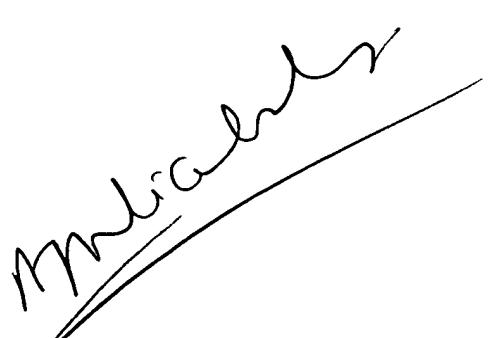
FILE 'HCAPLUS' ENTERED AT 09:41:42 ON 10 JUL 2003
L18 33 S L9/P OR L13/P
L19 4 S L17/P
L20 7 S L17

FILE 'REGISTRY' ENTERED AT 09:42:42 ON 10 JUL 2003

FILE 'HCAPLUS' ENTERED AT 09:43:24 ON 10 JUL 2003

=> d .ca hitstr 118 1-33;d .ca hitstr 120 1-7

L18 ANSWER 1 OF 33 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:763011 HCAPLUS
DOCUMENT NUMBER: 135:312739
TITLE: Towards increased shelf life for cobalt(III) Schiff
base complexes
INVENTOR(S): Meade, Thomas J.; Blum, Ofer; Gray, Harry B.
PATENT ASSIGNEE(S): California Institute of Technology, USA
SOURCE: PCT Int. Appl., 34 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:



PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001077123	A1	20011018	WO 2001-US11227	20010406
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 2002013470	A1	20020131	US 2001-828499	20010406 ✓S(3)

PRIORITY APPLN. INFO.: US 2000-195397P P 20000407

OTHER SOURCE(S): MARPAT 135:312739

AB Methods of stabilizing in an aq. medium Co(III) Schiff base complexes and stabilized Co(III) Schiff base compds. are claimed. For example, acetylacetone was condensed with ethylenediamine to give (acetylacetonyl)aminoethylimine which was condensed with 7-hydroxy-2,4-heptanedione to give HOCH₂CH₂CH₂COCH₂C(Me):NCH₂CH₂N:C(Me)CH₂COMe (H₂L). H₂L reacted with Co(OAc)₂ to give CoL which was reacted with NH₃ gas and exposed to air to give [CoL(NH₃)]OAc.

IC ICM C07F015-06

CC 78-7 (Inorganic Chemicals and Reactions)

IT 366792-16-7P 366792-17-8P 366792-19-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. with increased shelf life)

IT 366792-16-7P 366792-19-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. with increased shelf life)

RN 366792-16-7 HCAPLUS

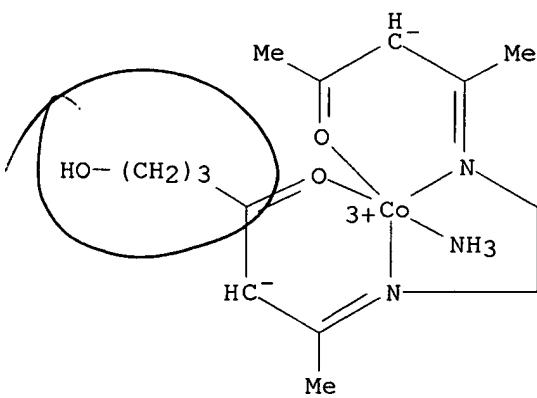
CN Cobalt(1+), ammine[1-hydroxy-6-[[2-[[1-methyl-3-(oxo-.kappa.O)butylidene]amino-.kappa.N]ethyl]imino-.kappa.N]-4-heptanonato(2-)-.kappa.O]-, (SP-5-54)-, acetate (9CI) (CA INDEX NAME)

CM 1

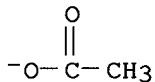
CRN 366792-15-6

CMF C14 H25 Co N3 O3

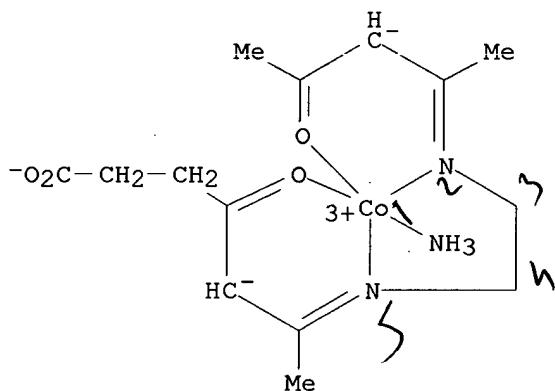
CCI CCS



CM 2

CRN 71-50-1
CMF C2 H3 O2

RN 366792-19-0 HCAPLUS
 CN Cobalt, ammine[6-[[2-[[1-methyl-3-(oxo-.kappa.O)butylidene]amino-.kappa.N]ethyl]imino-.kappa.N]-4-(oxo-.kappa.O)heptanoato(3-)]-, (SP-5-54)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

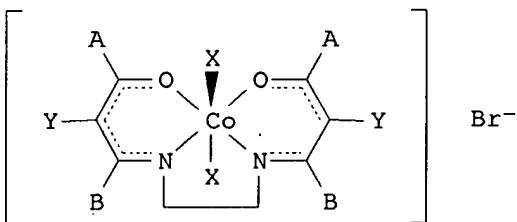
L18 ANSWER 2 OF 33 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2001:693084 HCAPLUS
 DOCUMENT NUMBER: 135:254413
 TITLE: Method of Chlamydia prophylaxis
 INVENTOR(S): Bourne, Nigel; Stanberry, Lawrence R.
 PATENT ASSIGNEE(S): Children's Hospital Medical Center, USA; Cincinnati, OH
 SOURCE: PCT Int. Appl., 22 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001068088	A1	20010920	WO 2001-US7660	20010309
W: AU, CA, IL, JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				

US 6476013	B1	20021105	US 2001-803295	20010309
US 2002187974	A1	20021212		
EP 1284726	A1	20030226	EP 2001-920282	20010309
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				

PRIORITY APPLN. INFO.:	US 2000-188531P	P 20000310
	US 2001-803295	A 20010309
	WO 2001-US7660	W 20010309

OTHER SOURCE(S): MARPAT 135:254413
GI



AB The likelihood of Chlamydia infection can be prevented by the topical application of metallo-org. Co compds. (I) to the site of infection; wherein each A may be the same or different and is an alkyl group, a Ph group or a substituted deriv. of a Ph group; each Y may be the same or different and is H, an unbranched alkyl group, a halide, or a group having the structure wherein R is H, an alkoxide group, and alkyl group, or OH; each B may be the same or different and each is H or an alkyl group; each X may be the same or different and each is a water sol. group having weak to intermediate ligand field strength; and Z- is a sol., pharmaceutically acceptable neg. ion. Metallo-org. Co compds. may also be used to disinfect liqs. which contain Chlamydia.

IC ICM A61K031-33
ICS A61K031-555

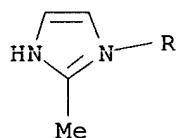
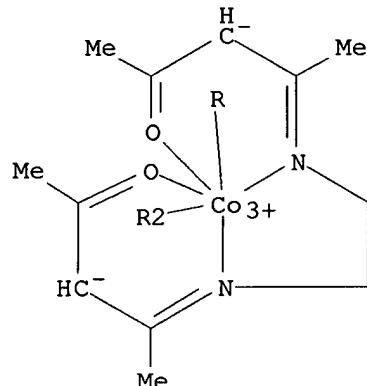
CC 10-5 (Microbial, Algal, and Fungal Biochemistry)
Section cross-reference(s): 1, 29

IT **149754-11-0P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PUR (Purification or recovery); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(Chlamydia prophylaxis with metallo-org. Co compds.)

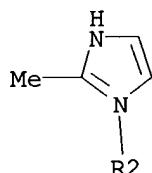
IT **149754-11-0P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PUR (Purification or recovery); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(Chlamydia prophylaxis with metallo-org. Co compds.)

RN 149754-11-0 HCPLUS
CN Cobalt(1+), [[4,4'-(1,2-ethanediyl)di(nitrilo-.kappa.N)]bis[2-pentanonato-.kappa.O]](2-)bis(2-methyl-1H-imidazole-.kappa.N3)-, bromide, (OC-6-33)-(9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

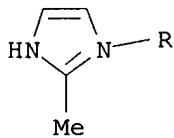
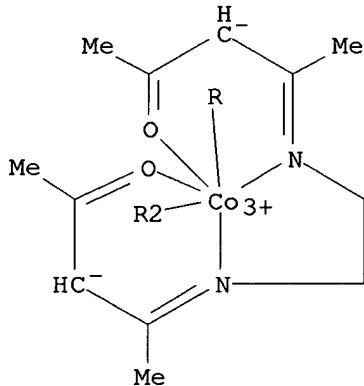
● Br⁻

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

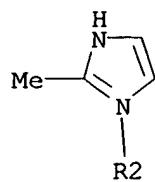
L18 ANSWER 3 OF 33 HCPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2000:28777 HCPLUS
 DOCUMENT NUMBER: 132:202212
 TITLE: New mixed tetradentate cobalt (III) complexes with ethylenediamino-bis-acetylacetone
 Ganescu, I.; Popescu, Al.; Mureseanu, Mihaela;
 Patroiescu, Iulia; Papa, I.; Popescu, Viorica
 Faculty of Sciences, Departament of Chemistry, Univ.
 of Craiova, Craiova, 1100, Rom.
 SOURCE: Analele Stiintifice ale Universitatii "Al. I. Cuza"
 din Iasi, Chimie (1998), 6, 191-198
 CODEN: ASUCFZ; ISSN: 1221-5341

PUBLISHER: Editura Universitatii "Al. I. Cuza" din Iasi
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Twenty new binary complex compds. $[Co(ec)(amine)2]X$ (ecH_2 = ethylenediaminobis(acetylacetone), amine = heterocyclic and arom. amines; X : halide, pseudohalide and other monovalent anions) were obtained and characterized by IR and electronic spectra and by derivatog. measurements twenty new complex salts of these chelates were prep'd. by double decompn. reactions. Some structural and stability problems are discussed.
 CC 78-7 (Inorganic Chemicals and Reactions)
 IT 84535-65-9P 84535-68-2P 259187-68-3P 259187-69-4P 259187-71-8P
 259187-72-9P 259187-73-0P 259187-74-1P 259187-76-3P 259187-78-5P
 259187-80-9P 259187-84-3P 259187-86-5P 259187-87-6P 259187-89-8P
 259187-90-1P **259822-75-8P 259822-77-0P**
259822-90-7P 259822-91-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 IT **259822-75-8P 259822-77-0P 259822-90-7P**
259822-91-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 259822-75-8 HCPLUS
 CN Cobalt(1+), $[[4,4'-(1,2-ethanediyl)bis(nitrilo-.\kappa.N)]bis[2-pentanonato-.\kappa.O]](2-)$ bis(2-methyl-1H-imidazole-.\kappa.N3)-, bromide (9CI) (CA INDEX NAME)

PAGE 1-A



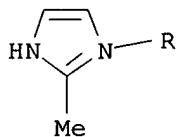
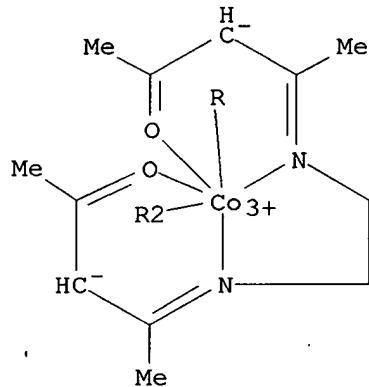
PAGE 2-A

● Br⁻

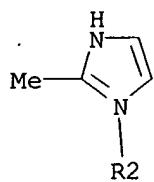
RN 259822-77-0 HCAPLUS

CN Cobalt(1+), [[4,4'-[1,2-ethanediyl]di(nitrilo-.kappa.N)]bis[2-pentanonato-.kappa.O]](2-)bis(2-methyl-1H-imidazole-.kappa.N3)-, iodide (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● I⁻

RN 259822-90-7 HCPLUS

CN Cobalt(1+), [[4,4'-[1,2-ethanediyl]di(nitrilo-.kappa.N)]bis[2-pantanonato-.kappa.O]](2-)bis(2-methyl-1H-imidazole-.kappa.N3)-, thiocyanate (9CI)
(CA INDEX NAME)

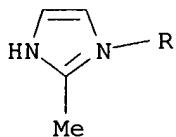
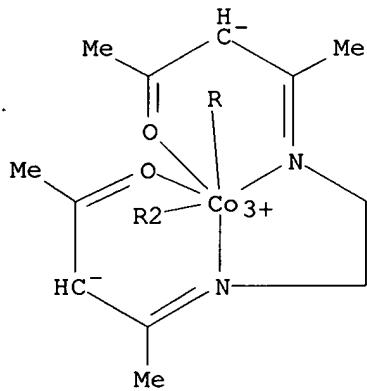
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CRN 259822-89-4

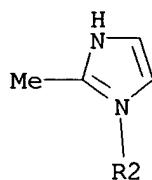
CMF C20 H30 Co N6 O2

CCI CCS

PAGE 1-A



PAGE 2-A



CM 2

CRN 302-04-5
CMF C N S

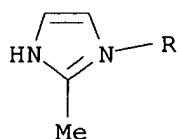
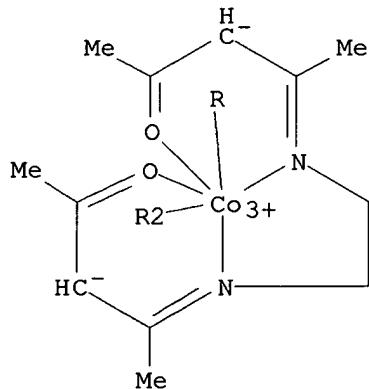
-S-C≡N

RN 259822-91-8 HCPLUS
CN Cobalt(1+), [[4,4'-[1,2-ethanediyl]di(nitrilo-.kappa.N)]bis[2-pentanonato-.kappa.O]](2-)bis(2-methyl-1H-imidazole-.kappa.N3)-, perchlorate (9CI)
(CA INDEX NAME)

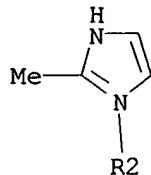
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CRN 259822-89-4
CMF C20 H30 Co N6 O2
CCI CCS

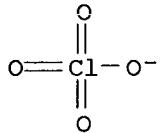
PAGE 1-A



PAGE 2-A



CM 2

CRN 14797-73-0
CMF Cl O4

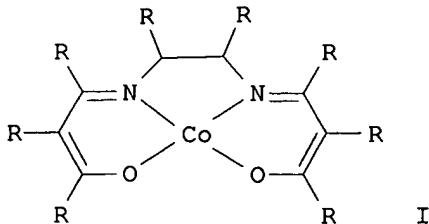
REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 4 OF 33 HCPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1999:816983 HCPLUS
 DOCUMENT NUMBER: 132:72858
 TITLE: Preparation of cobalt Schiff base compounds and their use in the inhibition of enzymes and zinc finger-contg. proteins
 INVENTOR(S): Meade, Thomas J.; Takeuchi, Toshihiko; Gray, Harry B.; Simon, Melvin; Louie, Angelique Y.
 PATENT ASSIGNEE(S): California Institute of Technology, USA
 SOURCE: U.S., 26 pp., Cont.-in-part of U.S. Ser. No. 358,068.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6008190	A	19991228	US 1995-570761	19951212
CA 2207748	AA	19960620	CA 1995-2207748	19951214
CA 2240183	AA	19970619	CA 1996-2240183	19961212
WO 9721431	A1	19970619	WO 1996-US19900	19961212
W: AU, CA, IL, JP				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9713336	A1	19970703	AU 1997-13336	19961212
AU 720841	B2	20000615		
EP 1021176	A1	20000726	EP 1996-944811	19961212
R: AT, BE, CH, DE, DK, FR, GB, IT, LI, NL, SE				

JP 2001503376 T2 20010313 JP 1997-522239 19961212
 PRIORITY APPLN. INFO.: US 1994-358068 A2 19941215
 US 1995-570761 A 19951212
 WO 1996-US19900 W 19961212

OTHER SOURCE(S): MARPAT 132:72858
 GI



AB The invention relates to the prepn. of novel cobalt compds., having a general structure (I) wherein Co is either Co(II) or Co(III), and each of the R groups is selected from the group consisting of hydrogen, alkyl, hydrophilic org. acid, alkyl amine, amine, alkyl alc., alc., polypeptide or nucleic acid. The invention further relates to methods of using such compds. to reduce the biol. activity of proteins, particularly enzymes and zinc finger-contg. proteins. Thus, [Co(III)(acacen)(NH3)2]Cl (H2acacen = Schiff base from the condensation of two acetylacetones with one ethylenediamine) and several related peptide coupled complexes were prepd. and their inhibition of thrombin tested.

IC ICM A61K031-295
 ICS A61K031-70; A61K038-02; C12N009-99

NCL 514006000

CC 78-7 (Inorganic Chemicals and Reactions)
 Section cross-reference(s): 1, 6, 7

IT **179555-42-1P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and coupling with peptides to give enzyme inhibitors)

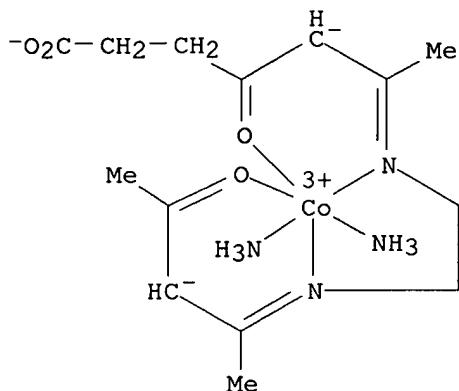
IT **15907-18-3P**
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (prepn. of cobalt Schiff base complexes and their inhibition of enzymes and zinc-finger contg. proteins)

IT 7440-48-4DP, Cobalt, Schiff base complexes, preparation
179555-45-4P 179555-46-5P 179555-47-6P
192700-63-3P 252990-52-6P 253120-17-1P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of cobalt Schiff base complexes and their inhibition of enzymes and zinc-finger contg. proteins)

IT **179555-42-1P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and coupling with peptides to give enzyme inhibitors)

RN 179555-42-1 HCAPLUS

CN Cobalt, diammine[6-[[2-[[1-methyl-3-(oxo-.kappa.O)butylidene]amino-.kappa.N]ethyl]imino-.kappa.N]-4-(oxo-.kappa.O)heptanoato(3-)]-, (OC-6-43)- (9CI) (CA INDEX NAME)

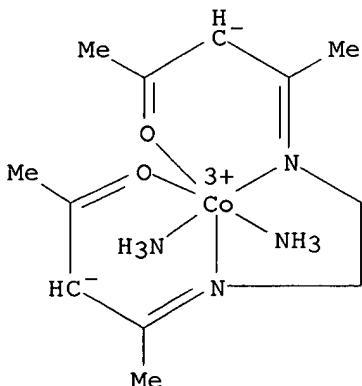


IT 15907-18-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(prepn. of cobalt Schiff base complexes and their inhibition of enzymes and zinc-finger contg. proteins)

RN 15907-18-3 HCPLUS

CN Cobalt(1+), diammine[[4,4'-[1,2-ethanediyl]bis[2-pentanoneato-.kappa.O]](2-)]-, chloride, (OC-6-22)- (9CI) (CA INDEX NAME)



● Cl-

IT 179555-45-4P 179555-47-6P 192700-63-3P

252990-52-6P 253120-17-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of cobalt Schiff base complexes and their inhibition of enzymes and zinc-finger contg. proteins)

RN 179555-45-4 HCPLUS

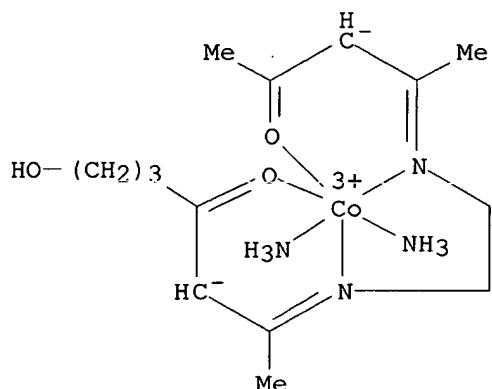
CN Cobalt(1+), diammine[1-hydroxy-6-[[2-[[1-methyl-3-(oxo-.kappa.O)butylidene]amino-.kappa.N]ethyl]imino-.kappa.N]-4-heptanonato(2-)-.kappa.O]-, (OC-6-43)-, acetate (9CI) (CA INDEX NAME)

CM 1

CRN 179555-44-3

CMF C14 H28 Co N4 O3

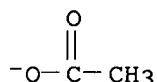
CCI CCS



CM 2

CRN 71-50-1

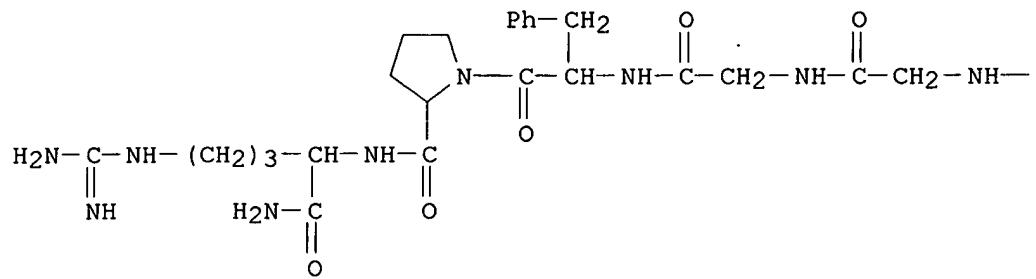
CMF C2 H3 O2



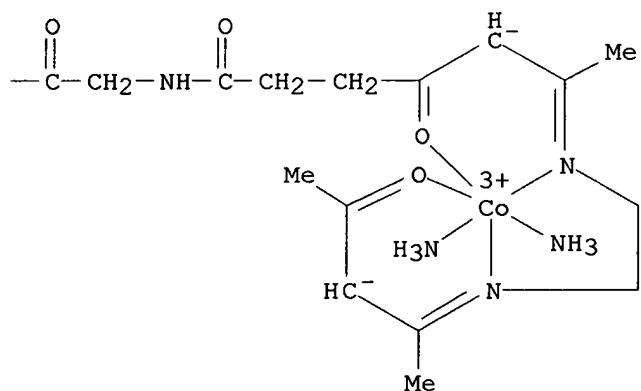
RN 179555-47-6 HCPLUS

CN Cobalt(1+), diammine[N-[6-[[2-[[1-methyl-3-(oxo-.kappa.O)butylidene]amino-.kappa.N]ethyl]imino-.kappa.N]-1-oxo-4-(oxo-.kappa.O)heptyl]glycylglycylglycyl-L-phenylalanyl-L-prolyl-L-argininamidato(2-)]-, chloride, (OC-6-43)- (9CI) (CA INDEX NAME)

PAGE 1-A

● Cl⁻

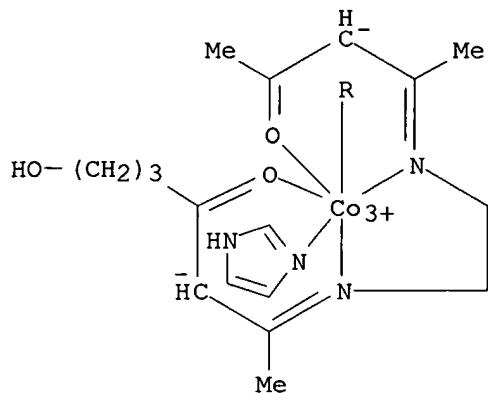
PAGE 1-B



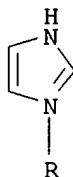
RN 192700-63-3 HCPLUS

CN Cobalt(1+), [1-hydroxy-6-[[2-[[1-methyl-3-(oxo-.kappa.O)butylidene]amino-.kappa.N]ethyl]imino-.kappa.N]-4-heptanonato(2-)-.kappa.O]bis(1H-imidazole-.kappa.N3)-, (OC-6-54)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



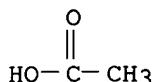
RN 252990-52-6 HCAPLUS

CN Cobalt(1+), diammine[N-[6-[[2-[[1-methyl-3-(oxo-.kappa.O)butylidene]amino-.kappa.N]ethyl]imino-.kappa.N]-1-oxo-4-(oxo-.kappa.O)heptyl]glycylglycylglycyl-L-phenylalanyl-L-proyl-L-argininamidato(2-)]-, (OC-6-43)-, acetate, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 64-19-7

CMF C2 H4 O2



CM 2

CRN 252990-51-5

CMF C40 H64 Co N14 09 . C2 H3 02

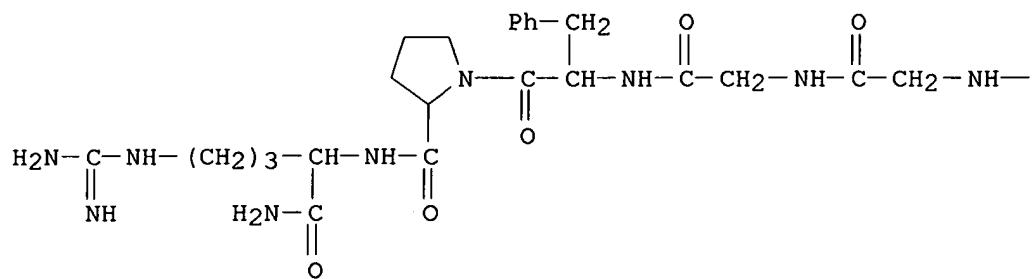
CM 3

CRN 252990-50-4

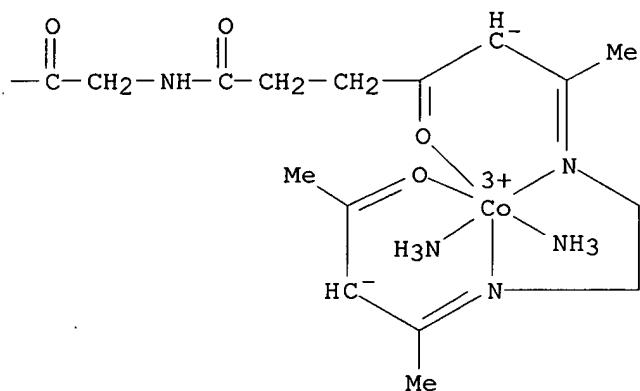
CMF C40 H64 Co N14 O9

CCII CCT

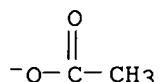
PAGE 1-A



PAGE 1-B

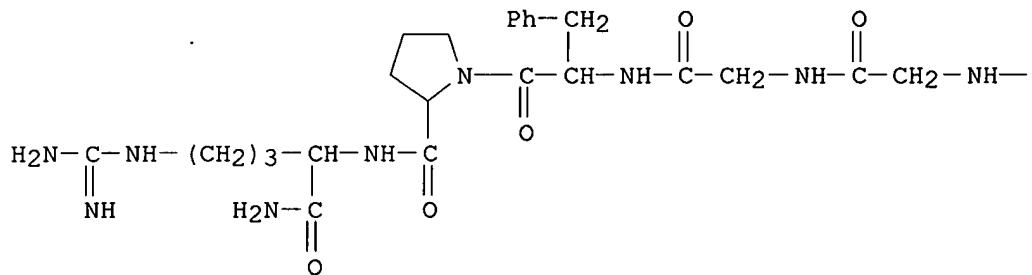


CM 4

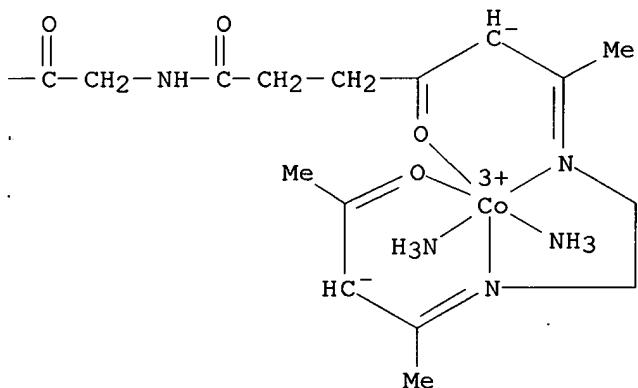
CRN 71-50-1
CMF C2 H3 O2

RN 253120-17-1 HCPLUS
 CN Cobalt(1+), diammine[N-[6-[[2-[[1-methyl-3-(oxo-.kappa.O)butylidene]amino-.kappa.N]ethyl]imino-.kappa.N]-1-oxo-4-(oxo-.kappa.O)heptyl]glycylglycylglycyl-D-phenylalanyl-L-prolyl-L-argininamido(2-)]-, (OC-6-43)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



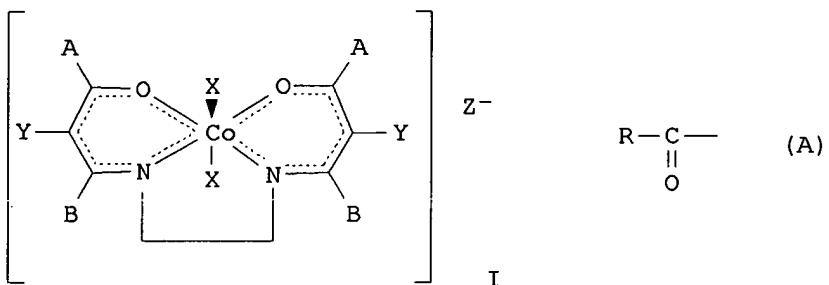
REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 5 OF 33 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1999:795608 HCAPLUS
 DOCUMENT NUMBER: 132:30815
 TITLE: Use of metallo-organic cobalt compounds for prevention and treatment of HIV and HPV
 INVENTOR(S): Stewart, Claudia Cherney
 PATENT ASSIGNEE(S): Rodex Pharmaceutical Corp., USA
 SOURCE: PCT Int. Appl., 41 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9963947	A2	19991216	WO 1999-US13562	19990611
WO 9963947	A3	20000217		
W: AU, CA, IL, JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				

CA 2343824	AA 19991216	CA 1999-2343824	19990611
EP 1085864	AI 20010328	EP 1999-928703	19990611
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
US 2003125297	AI 20030703	US 1999-330629	19990611
PRIORITY APPLN. INFO.:		US 1998-89250P	P 19980611
		WO 1999-US13562	W 19990611

OTHER SOURCE(S): MARPAT 132:30815
GI



AB Human immunodeficiency virus and/or human Papillomavirus infection can be prevented by the topical application of metallo-org. cobalt compds. I to the site of infection; wherein each A may be the same or different and is an alkyl group, a Ph group or a substituted deriv. of a Ph group; wherein each Y may be the same or different and is hydrogen, an unbranched alkyl group, a halide or a group having the structure (a) wherein R is hydrogen, an alkoxide group, an alkyl group, or OH; wherein each B may be the same or different and each is hydrogen or an alkyl group; wherein each X may be the same or different and each is a water sol. group having weak to intermediate ligand field strength; and Z- is a sol., pharmaceutically acceptable neg. ion. Metallo-org. cobalt compds. may also be used to disinfect liqs. which contain human immunodeficiency virus and/or human Papillomavirus. The cobalt II complexes were prep'd. by mixing equimolar amts. of N,N'-bisethylenediamine ligand followed by the oxidn. Antiviral efficacy of the compds. was shown.

ICI A61

CC 1-5 (Pharmacology)

Section cross-reference(s): 29, 63

IT 15907-18-3P 252332-50-6P

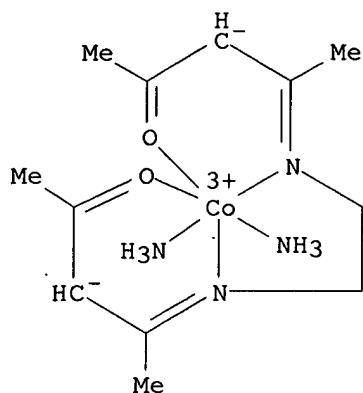
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(use of metallo-org. cobalt compds. for prevention and treatment of HIV and HPV)

IT 15907-18-3P 252332-50-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(use of metallo-org. cobalt compds. for prevention and treatment of HIV and HPV)

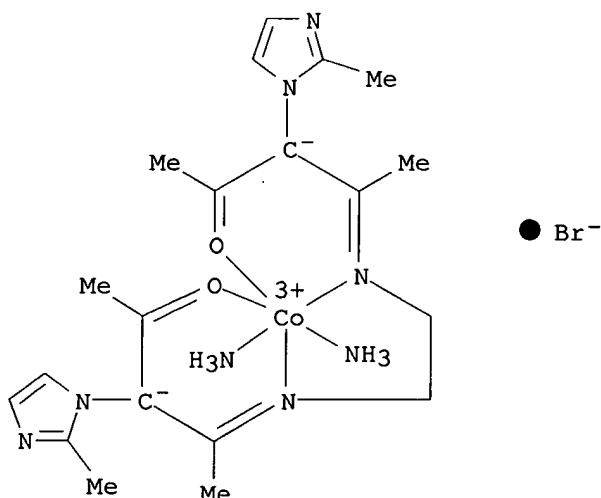
RN 15907-18-3 HCAPLUS

CN Cobalt(1+), diammine[[4,4'-(1,2-ethanediyl)bis(nitrilo-.kappa.N)]bis[2-pentanone-.kappa.O]](2-)-, chloride, (OC-6-22)- (9CI) (CA INDEX NAME)

● Cl⁻

RN 252332-50-6 HCAPLUS

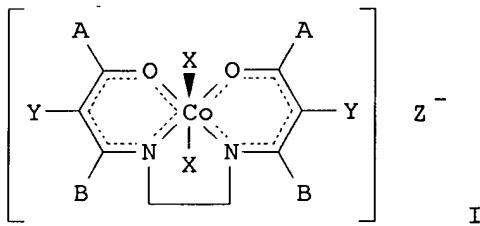
CN Cobalt(1+), diammine[[4,4'-(1,2-ethanediylidetriammine)bis[3-(2-methyl-1H-imidazol-1-yl)-2-pentanone]-, bromide, (OC-6-22)- (9CI) (CA INDEX NAME)

● Br⁻

L18 ANSWER 6 OF 33 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1999:722845 HCAPLUS
 DOCUMENT NUMBER: 131:332086
 TITLE: Method of herpes simplex virus prophylaxis using a
 topical metalorganic cobalt compound
 INVENTOR(S): Bourne, Nigel; Stanberry, Lawrence R.
 PATENT ASSIGNEE(S): Children's Hospital Research Foundation, USA
 SOURCE: PCT Int. Appl., 48 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent

LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9956552	A1	19991111	WO 1999-US10091	19990506
W: AU, CA, IL, JP RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2331801	AA	19991111	CA 1999-2331801	19990506
AU 9938911	A1	19991123	AU 1999-38911	19990506
EP 1075186	A1	20010214	EP 1999-921794	19990506
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRIORITY APPLN. INFO.:			US 1998-84448P	P 19980506
			WO 1999-US10091	W 19990506
OTHER SOURCE(S):	MARPAT 131:332086			
GI				



AB Herpes virus infection can be prevented by the topical application of metalorg. cobalt compds. I [A = alkyl, Ph, substituted deriv. of Ph; Y = H, unbranched alkyl, halide, RC(O) (R = H, alkoxide, alkyl, OH); B = H, alkyl; X = water sol. group with weak to intermediate ligand field strength; Z- = sol. pharmaceutically acceptable neg. ion] to the site of infection. Metalloorg. cobalt compds. may also be used to disinfect liqs. which contain herpes virus.

IC ICM A01N055-02

CC 1-5 (Pharmacology)

Section cross-reference(s): 63

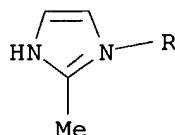
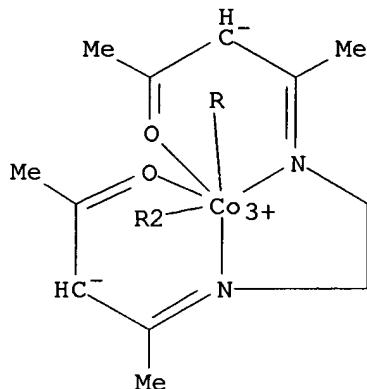
IT **149754-11-0P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(metalorg. cobalt compd. for herpes simplex virus prophylaxis)

IT **149754-11-0P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(metalorg. cobalt compd. for herpes simplex virus prophylaxis)

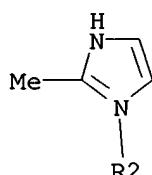
RN 149754-11-0 HCPLUS

CN Cobalt(1+), [[4,4'-(1,2-ethanediyl)di(nitrilo-.kappa.N)]bis[2-pentanonato-.kappa.O]](2-)bis(2-methyl-1H-imidazole-.kappa.N3)-, bromide, (OC-6-33)-(9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● Br⁻

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 7 OF 33 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1999:712840 HCAPLUS
 DOCUMENT NUMBER: 132:58825
 TITLE: Complexes of cobalt with Schiff bases as potential antitumor agents and modifiers of cancer therapy
 AUTHOR(S): Bubnovskaya, L. N.; Vol'pik, M. E.; Ganusevich, I. I.; Levitin, I. Ya.; Oganezov, V. V.; Osinskii, S. P.; Pankratov, A. A.; Sigan, A. L.; Surgai, V. V.; Tsikalova, M. V.; Yakubovskaya, R. I.
 CORPORATE SOURCE: Inst. Eksp. Patol., Onkol. i Radiobiol. im. R. E. Kavetskogo, Nats. Akad. Nauk Ukrayiny, Ukraine

SOURCE: Rossiiskii Khimicheskii Zhurnal (1998), 42(5), 128-140
 CODEN: RKZHEZ; ISSN: 1024-6215

PUBLISHER: Rossiiskoe Khimicheskoe Obshchestvo im. D. I. Mendeleeva

DOCUMENT TYPE: Journal

LANGUAGE: Russian

AB The authors evaluated the antitumor and antimetastatic activities of the cobalt complexes with Schiff bases.

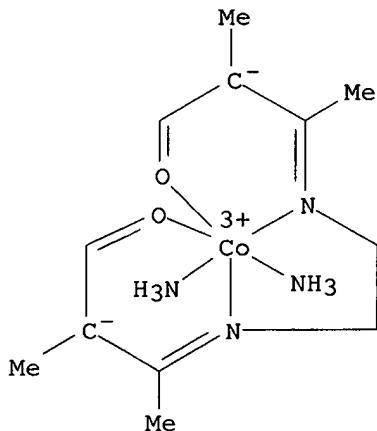
CC 1-6 (Pharmacology)

IT 7440-48-4DP, Cobalt, complexes with Schiff bases, biological studies
 14167-18-1P 17457-14-6P 60352-14-9P 76375-20-7P 85571-02-4P
 114782-69-3P 114782-76-2P 175167-52-9P 183013-08-3P
253337-75-6P
 RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
 (complexes of cobalt with Schiff bases as potential antitumor agents and modifiers of cancer therapy)

IT **253337-75-6P**
 RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
 (complexes of cobalt with Schiff bases as potential antitumor agents and modifiers of cancer therapy)

RN 253337-75-6 HCAPLUS

CN Cobalt(1+), diammine[[3,3'-(1,2-ethanediyl)bis[2-methylbutanalato-.kappa.O]](2-)]-, bromide, (OC-6-22)- (9CI) (CA INDEX NAME)

● Br⁻

L18 ANSWER 8 OF 33 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1999:383505 HCAPLUS
 DOCUMENT NUMBER: 131:179288

TITLE: Inhibition of thermolysin and human .alpha.-thrombin
 by cobalt(III) Schiff base complexes
 AUTHOR(S): Takeuchi, Toshihiko; Bottcher, Arnd; Quezada, Cindy
 M.; Meade, Thomas J.; Gray, Harry B.
 CORPORATE SOURCE: Division of Biology and the Beckman Institute,
 California Institute of Technology, Pasadena, CA,
 91125, USA
 SOURCE: Bioorganic & Medicinal Chemistry (1999), 7(5), 815-819
 CODEN: BMECEP; ISSN: 0968-0896
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB Cobalt(III) Schiff base complexes have been shown to inhibit the replication of the ocular herpes virus. It is well known that these complexes have a high affinity for nitrogenous donors such as histidine residues, and it is possible that they bind to (and inhibit) an enzyme that is crucial to viral replication. In model studies, it was found that $[\text{Co}(\text{acacen})(\text{NH}_3)_2]^+$ is an effective irreversible inhibitor of thermolysin at millimolar concns.; it also inhibits human .alpha.-thrombin. Axial ligand exchange with an active-site histidine is the proposed mechanism of inhibition. The activity of thermolysin and thrombin can be protected by binding a reversible inhibitor to the active site before addn. of the cobalt(III) complex.

CC 1-3 (Pharmacology)

Section cross-reference(s): 28, 78

IT 7440-48-4DP, Cobalt, Schiff base complexes, biological studies

15907-18-3P 210569-50-9P 240122-93-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(cobalt(III) Schiff base complexes prepn. and inhibition of thermolysin and human .alpha.-thrombin)

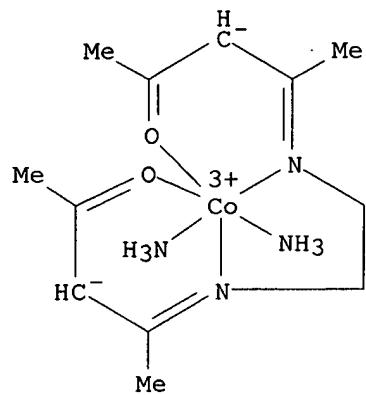
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RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(cobalt(III) Schiff base complexes prepn. and inhibition of thermolysin and human .alpha.-thrombin)

RN 15907-18-3 HCAPLUS

CN Cobalt(1+), diammine[[4,4'-(1,2-ethanediyl)bis[nitrilo-.kappa.N]]bis[2-pentanonato-.kappa.O]](2-)-, chloride, (OC-6-22)- (9CI) (CA INDEX NAME)

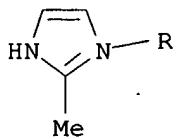
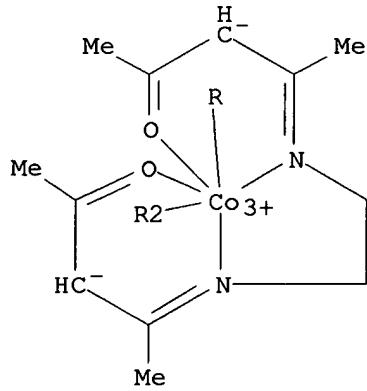


● Cl⁻

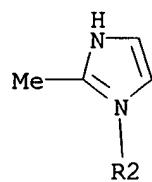
RN 210569-50-9 HCAPLUS

CN Cobalt(1+), [[4,4'-[1,2-ethanediyl]di(nitrilo-.kappa.N)]bis[2-pentanonato-.kappa.O]](2-)bis(2-methyl-1H-imidazole-.kappa.N3)-, chloride, (OC-6-33)-(9CI) (CA INDEX NAME)

PAGE 1-A



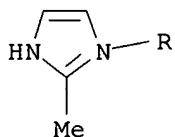
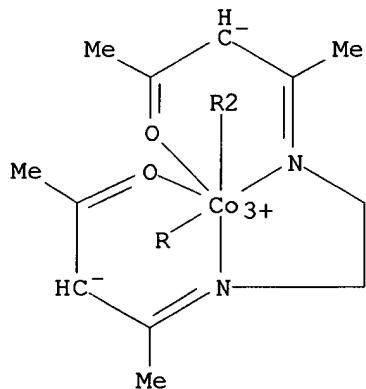
PAGE 2-A

● Cl⁻

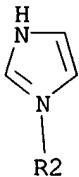
RN 240122-93-4 HCPLUS

CN Cobalt(1+), [[4,4'-[1,2-ethanediyl]di(nitrilo-.kappa.N)]bis[2-pentanonato-.kappa.O]](2-)](1H-imidazole-.kappa.N3)(2-methyl-1H-imidazole-.kappa.N3)-, chloride, (OC-6-33)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



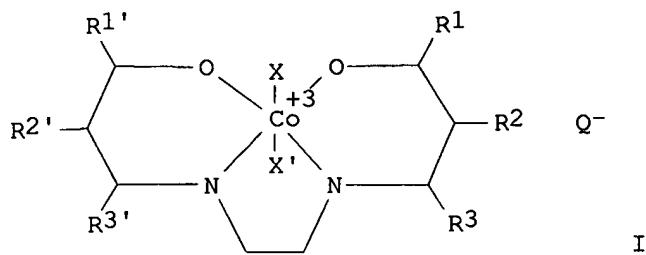
● Cl-

REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 9 OF 33 HCPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1998:352598 HCPLUS
 DOCUMENT NUMBER: 129:24437
 TITLE: Method for treating cyanide poisoning
 INVENTOR(S): Gershon, David; Taitelman, Uri
 PATENT ASSIGNEE(S): Redox Pharmaceutical Corp., USA
 SOURCE: U.S., 27 pp., Cont.-in-part of U.S. 5,587,395.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 8
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5753698	A	19980519	US 1996-726679	19961004
US 4866054	A	19890912	US 1988-147713	19880125
US 4866053	A	19890912	US 1988-147714	19880125
US 5587395	A	19961224	US 1995-428532	19950425
WO 9814456	A1	19980409	WO 1997-US17967	19971003
W: AU, CA, IL, JP				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9748083	A1	19980424	AU 1997-48083	19971003
US 5886032	A	19990323	US 1998-13826	19980127
PRIORITY APPLN. INFO.:				
US 1986-862804 B2 19860513				
US 1988-147713 A2 19880125				
US 1988-147714 A2 19880125				
US 1995-428532 A2 19950425				
US 1988-279417 A1 19881202				
US 1990-606070 A3 19901030				
US 1992-895526 A1 19920602				
US 1993-146395 A3 19931101				
US 1996-726679 A 19961004				
WO 1997-US17967 W 19971003				

OTHER SOURCE(S): MARPAT 129:24437
 GI



AB A method of treating a subject having a condition assocd. with the presence of cyanide in quantities sufficient to cause undesirable symptoms which comprises administering to the subject a compd. I in an amt. effective to alleviate the undesirable symptoms, wherein R1 and R1' are the same or different and each is an alkyl group, a Ph group or a substituted deriv. of a Ph group; R2 and R2' are the same or different and each is H, an unbranched alkyl group, a halide or a group RCO- wherein R is hydrogen, an alkoxide group, and alkyl group or OH; R3 and R3' are the same or different and each is hydrogen or an alkyl group; X and X' are the same or different and each is a water-sol. group having weak to intermediate field strength; and Q-- is a sol., pharmaceutically acceptable neg. ion.

IC ICM A61K031-295

ICS C07F015-06

NCL 514501000

CC 4-3 (Toxicology)

Section cross-reference(s): 1

IT **55031-55-5P**

RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(cobalt organometallics for treating cyanide poisoning)

IT **15907-18-3P 132098-82-9P 132098-83-0P**

132114-13-7P 132114-14-8P

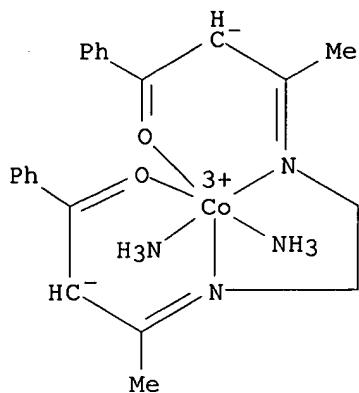
RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(cobalt organometallics for treating cyanide poisoning)

IT **55031-55-5P**

RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(cobalt organometallics for treating cyanide poisoning)

RN 55031-55-5 HCPLUS

CN Cobalt(1+), diammine[[3,3'-(1,2-ethanediyldi(nitrilo-.-kappa.N)]bis[1-phenyl-1-butanonato-.-kappa.O](2-)]-, chloride, (OC-6-22)- (9CI) (CA INDEX NAME)

● Cl⁻

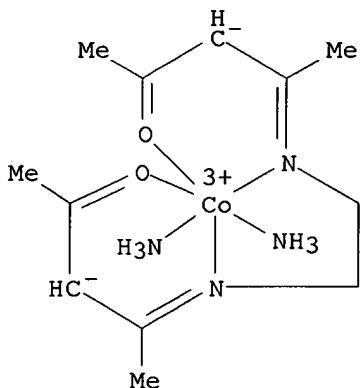
IT 15907-18-3P 132098-82-9P 132098-83-0P

132114-13-7P 132114-14-8P

RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use);
 BIOL (Biological study); PREP (Preparation); USES (Uses)
 (cobalt organometallics for treating cyanide poisoning)

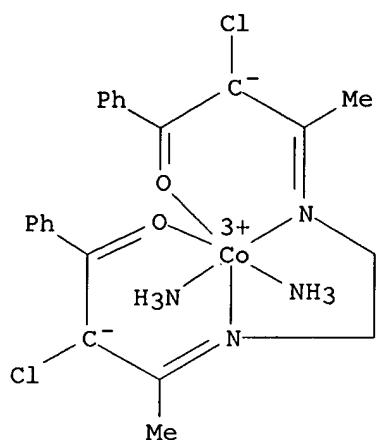
RN 15907-18-3 HCAPLUS

CN Cobalt(1+), diammine[4,4'-(1,2-ethanediyl)bis[2-pentanone]](2-)-, chloride, (OC-6-22)- (9CI) (CA INDEX NAME)

● Cl⁻

RN 132098-82-9 HCAPLUS

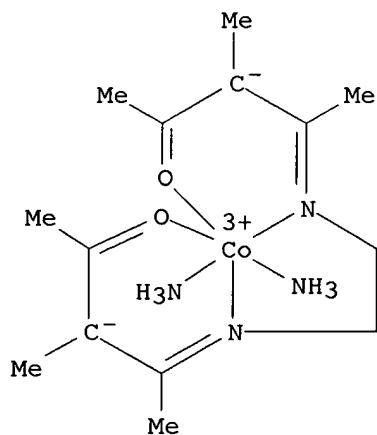
CN Cobalt(1+), diammine[3,3'-(1,2-ethanediyl)bis[2-chloro-1-phenyl-1-butanone]](2-)-, bromide, (OC-6-22)- (9CI) (CA INDEX NAME)



● Br⁻

RN 132098-83-0 HCPLUS

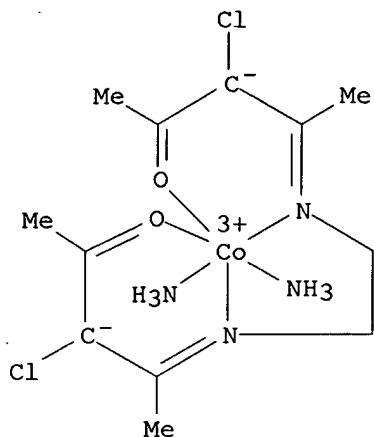
CN Cobalt(1+), diammmine[4,4'-(1,2-ethanediyl)bis(nitrilo)-.kappa.N]bis[3-methyl-2-pentanone-.kappa.O](2-)-, chloride, (OC-6-22)- (9CI) (CA INDEX NAME)



● Cl⁻

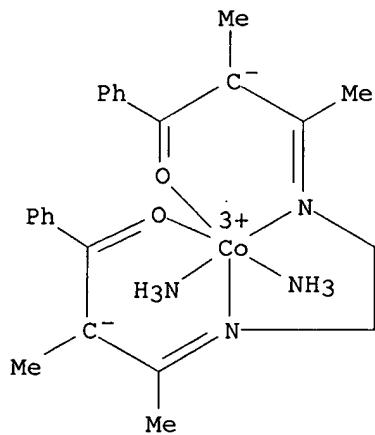
RN 132114-13-7 HCPLUS

CN Cobalt(1+), diammmine[4,4'-(1,2-ethanediyl)bis(nitrilo)-.kappa.N]bis[3-chloro-2-pentanone-.kappa.O](2-)-, chloride, (OC-6-22)- (9CI) (CA INDEX NAME)

● Cl⁻

RN 132114-14-8 HCPLUS

CN Cobalt(1+), diammine[3,3'-(1,2-ethanediyl)bis[2-methyl-1-phenyl-1-butanonato]](2-)-, bromide, (OC-6-22)- (9CI) (CA INDEX NAME)

● Br⁻

REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 10 OF 33 HCPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1998:219814 HCPLUS

DOCUMENT NUMBER: 128:291414

TITLE: Method for treating cyanide poisoning

INVENTOR(S): Gerhson, David; Taitelman, Uri

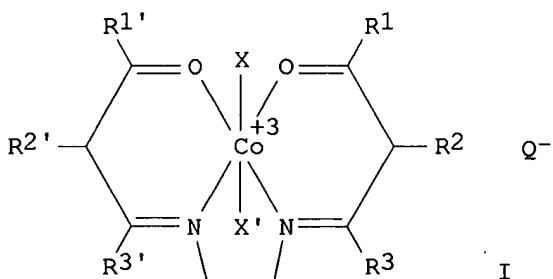
PATENT ASSIGNEE(S): Redox Pharmaceutical Corp., USA

SOURCE: PCT Int. Appl., 81 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 8
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9814456	A1	19980409	WO 1997-US17967	19971003
W: AU, CA, IL, JP				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5753698	A	19980519	US 1996-726679	19961004
AU 9748083	A1	19980424	AU 1997-48083	19971003
PRIORITY APPLN. INFO.:				
			US 1996-726679	A 19961004
			US 1986-862804	B2 19860513
			US 1988-147713	A2 19880125
			US 1988-147714	A2 19880125
			US 1995-428532	A2 19950425
			WO 1997-US17967	W 19971003

OTHER SOURCE(S): MARPAT 128:291414

GI



AB A method of treating an animal having a condition assocd. with the presence of cyanide in quantities sufficient to cause undesirable symptoms which comprises administering to the subject a compd. in an amt. effective to alleviate the undesirable symptoms, the compd. having the structure I; wherein R1 and R1' are the same or different and each is an alkyl group, a Ph group or a substituted deriv. of a Ph group; wherein R2 and R2' are the same or different and each is hydrogen, an unbranched alkyl group, a halide or a group having the structure RCO-, wherein R is hydrogen, an alkoxide group, an alkyl group, or OH; wherein R3 and R3' are the same or different and each is hydrogen or an alkyl group; wherein X and X' are the same or different and each is a water sol. group having weak to intermediate field strength; and Q- is a sol., pharmaceutically acceptable neg. ion.

IC ICM C07F015-06
 ICS A62B007-10; A61K031-295

CC 4-3 (Toxicology)

IT 15907-18-3P 16010-06-3P

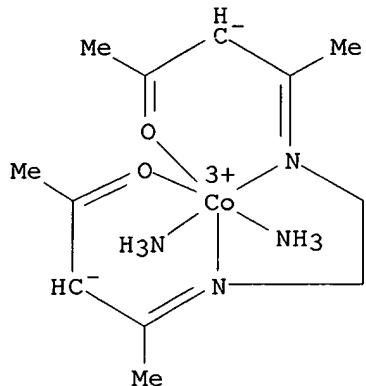
RL: DEV (Device component use); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); USES (Uses)

(method for treating cyanide poisoning with cobalt complexes)

IT 55031-55-5P 132098-82-9P 132098-83-0P
132114-13-7P 132114-14-8PRL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)
(method for treating cyanide poisoning with cobalt complexes)IT 15907-18-3P 16010-06-3P
RL: DEV (Device component use); PRP (Properties); SPN (Synthetic
preparation); THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
(method for treating cyanide poisoning with cobalt complexes)

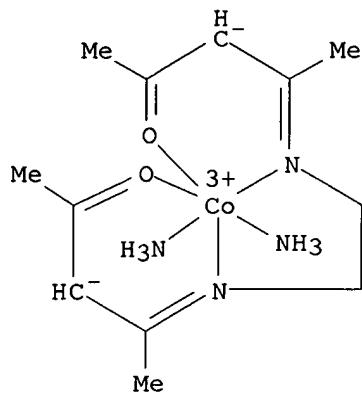
RN 15907-18-3 HCPLUS

CN Cobalt(1+), diammmine[[4,4'-[1,2-ethanediyl]di(nitrilo-.kappa.N)]bis[2-
pentanonato-.kappa.O]](2-)-, chloride, (OC-6-22)- (9CI) (CA INDEX NAME)

● Cl-

RN 16010-06-3 HCPLUS

CN Cobalt(1+), diammmine[[4,4'-[1,2-ethanediyl]di(nitrilo-.kappa.N)]bis[2-
pentanonato-.kappa.O]](2-)-, bromide, (OC-6-22)- (9CI) (CA INDEX NAME)

● Br⁻

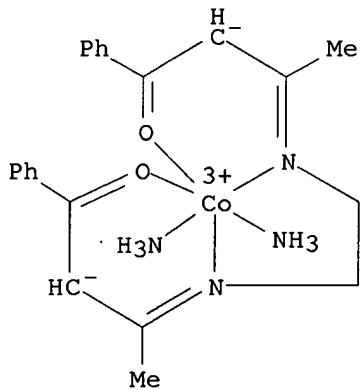
IT 55031-55-5P 132098-82-9P 132098-83-0P

132114-13-7P 132114-14-8P

RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use);
 BIOL (Biological study); PREP (Preparation); USES (Uses)
 (method for treating cyanide poisoning with cobalt complexes)

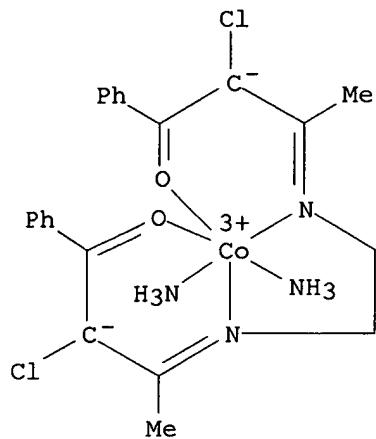
RN 55031-55-5 HCPLUS

CN Cobalt(1+), diammine[[3,3'-[1,2-ethanediyl]di(nitrilo-1,2-phenylene)bis[1-phenyl-1-butanolato-1-phenyl-1-butyl]](2-)]-, chloride, (OC-6-22)- (9CI) (CA INDEX NAME)

● Cl⁻

RN 132098-82-9 HCPLUS

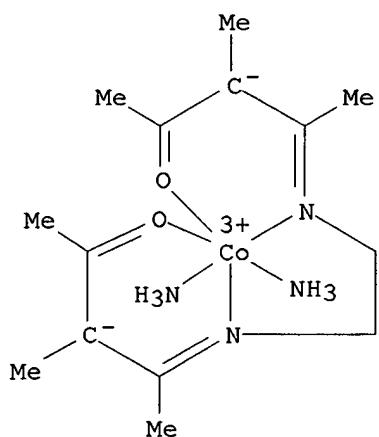
CN Cobalt(1+), diammine[[3,3'-[1,2-ethanediyl]di(nitrilo-1,2-phenylene)bis[2-chloro-1-phenyl-1-butanolato-1-phenyl-1-butyl]](2-)]-, bromide, (OC-6-22)- (9CI) (CA INDEX NAME)



● Br⁻

RN 132098-83-0 HCAPLUS

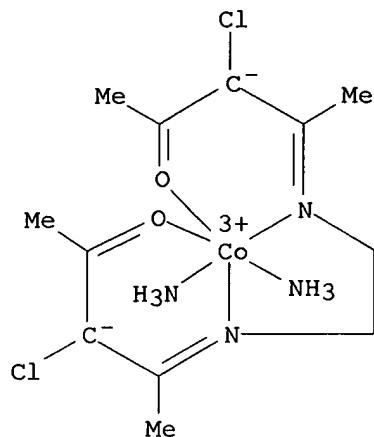
CN Cobalt(1+), diammine[[4,4'-(1,2-ethanediyl)bis(1,10-phenanthroline)](2-)]-, chloride, (OC-6-22)- (9CI) (CA INDEX NAME)



● Cl⁻

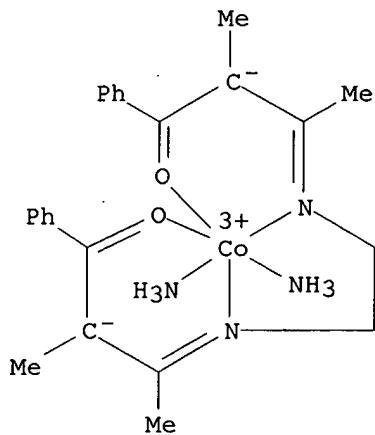
RN 132114-13-7 HCAPLUS

CN Cobalt(1+), diammine[[4,4'-(1,2-ethanediyl)bis(1,10-phenanthroline)](2-)]-, chloride, (OC-6-22)- (9CI) (CA INDEX NAME)

● Cl⁻

RN 132114-14-8 HCAPLUS

CN Cobalt(1+), diammine[[3,3'-[1,2-ethanediyl]di(nitrilo-.κN)]bis[2-methyl-1-phenyl-1-butanonato-.κO]](2-)-, bromide, (OC-6-22)- (9CI) (CA INDEX NAME)

● Br⁻

REFERENCE COUNT:

5

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 11 OF 33 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1997:511989 HCAPLUS

DOCUMENT NUMBER: 127:117386

TITLE: Cobalt-Schiff base compounds, their preparation and their use as inhibitors of thrombin, other enzymes, and zinc-finger proteins

INVENTOR(S): Meade, Thomas J.; Takeuchi, Toshihiko; Gray, Harry B.;
 Simon, Melvin; Louie, Angelique Y.
 PATENT ASSIGNEE(S): California Institute of Technology, USA
 SOURCE: PCT Int. Appl., 71 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9721431	A1	19970619	WO 1996-US19900	19961212
W: AU, CA, IL, JP				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 6008190	A	19991228	US 1995-570761	19951212
AU 9713336	A1	19970703	AU 1997-13336	19961212
AU 720841	B2	20000615		
EP 1021176	A1	20000726	EP 1996-944811	19961212
R: AT, BE, CH, DE, DK, FR, GB, IT, LI, NL, SE				
JP 2001503376	T2	20010313	JP 1997-522239	19961212
PRIORITY APPLN. INFO.:			US 1995-570761	A 19951212
			US 1994-358068	A2 19941215
			WO 1996-US19900	W 19961212

OTHER SOURCE(S): MARPAT 127:117386

AB Cobalt compds. are provided in which divalent or trivalent cobalt is complexed with water sol. tetradentate Schiff bases. The tetradentate Schiff bases preferably contain two nitrogen atoms and two oxygen atoms as coordinating atoms. The compds. can contain polypeptide or nucleic acid targeting moieties and can be used to inhibit enzymes such as thrombin and to inhibit zinc finger proteins. Inhibition of thrombin by e.g. [Co(III)(acacen)(NH3)2]Cl is described, as is thrombin inhibition by a cobalt complex linked to a peptide contg. a dPhe-Pro-Arg sequence. Prepn. of cobalt complexes is also described.

IC ICM A61K031-045
 ICS A61K031-13; A61K031-19; A61K031-295; A61K031-70; A61K038-02;
 C07F015-06; C07H021-00; C07H023-00; C07K002-00; C12N009-74

CC 1-8 (Pharmacology)
 Section cross-reference(s): 6, 7, 23, 78

IT 15907-18-3P 179555-42-1P 179555-46-5P
 179555-47-6P 192700-56-4P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (cobalt-Schiff base compd. prepn. and use as inhibitors of thrombin, other enzymes, and zinc-finger proteins)

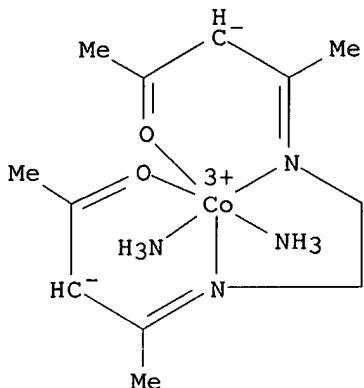
IT 46933-76-0P
 RL: BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
 (cobalt-Schiff base compd. prepn. and use as inhibitors of thrombin, other enzymes, and zinc-finger proteins)

IT 15907-18-3P 179555-42-1P 179555-47-6P
 192700-56-4P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (cobalt-Schiff base compd. prepn. and use as inhibitors of thrombin,

other enzymes, and zinc-finger proteins)

RN 15907-18-3 HCPLUS

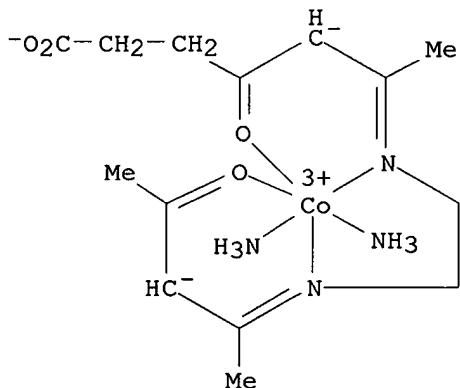
CN Cobalt(1+), diammmine[4,4'-(1,2-ethanediyl)bis(1,4-pentanediyl)]bis(2-pentanone-), chloride, (OC-6-22)- (9CI) (CA INDEX NAME)



● Cl⁻

RN 179555-42-1 HCPLUS

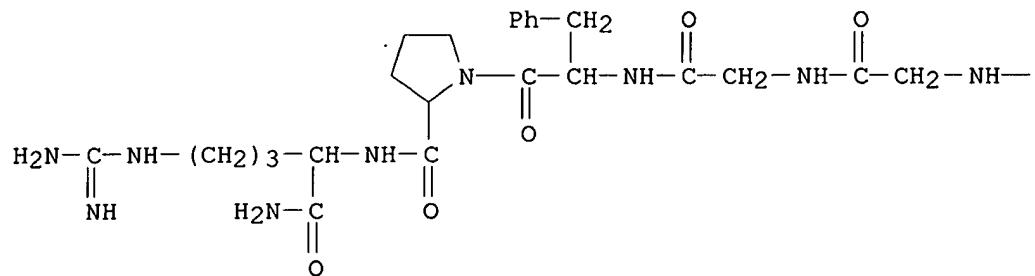
CN Cobalt, diammmine[6-[(2-[(1-methyl-3-(oxo-)-N-ethyl]imino)-N-4-(oxo-)-N-heptanoato(3-)]-], (OC-6-43)- (9CI) (CA INDEX NAME)



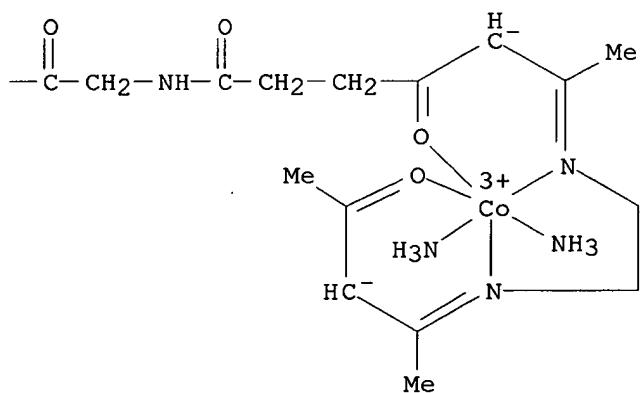
RN 179555-47-6 HCPLUS

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PAGE 1-A

● Cl⁻

PAGE 1-B



RN 192700-56-4 HCPLUS

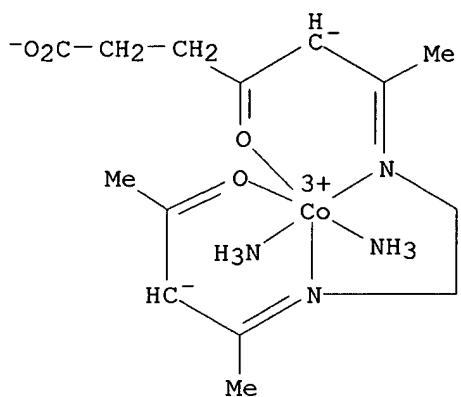
CN Cobalt, diammine[6-[[2-[[1-methyl-3-(oxo-.kappa.O)butylidene]amino-.kappa.N]ethyl]imino-.kappa.N]-4-(oxo-.kappa.O)heptanoato(3-)]-, (OC-6-43)-, compd. with acetic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

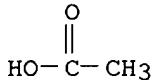
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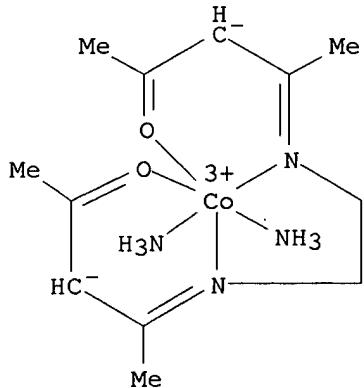


CM 2

CRN 64-19-7
CMF C2 H4 O2

IT **46933-76-0P**
 RL: BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
 (cobalt-Schiff base compd. prepn. and use as inhibitors of thrombin, other enzymes, and zinc-finger proteins)

RN 46933-76-0 HCAPLUS
 CN Cobalt(1+), diammine[[4,4'-[1,2-ethanediyl]di(nitrilo-.κN)]bis[2-pentanonato-.κO]](2-)]-, (OC-6-22)- (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1996:476860 HCAPLUS
 DOCUMENT NUMBER: 125:132725
 TITLE: Cobalt Schiff-base complexes and their preparation for inhibiting enzymes or other proteins, for bactericides and antimicrobials, for labeling proteins, and for other uses
 INVENTOR(S): Meade, Thomas J.; Gray, Harry B.; Takeuchi, Toshihiko
 PATENT ASSIGNEE(S): California Institute of Technology, USA
 SOURCE: PCT Int. Appl., 66 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9618402	A1	19960620	WO 1995-US16377	19951214
W: AU, CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2207748	AA	19960620	CA 1995-2207748	19951214
AU 9646000	A1	19960703	AU 1996-46000	19951214
AU 707962	B2	19990722		
EP 794782	A1	19970917	EP 1995-944118	19951214
R: AT, BE, CH, DE, DK, FR, GB, IT, LI, NL, SE				
JP 2002515010	T2	20020521	JP 1996-519283	19951214
PRIORITY APPLN. INFO.:			US 1994-358068 A	19941215
			WO 1995-US16377 W	19951214

OTHER SOURCE(S): MARPAT 125:132725

AB Cobalt complexes are disclosed that can exchange or bind functional moieties, e.g. histidine on a protein's surface, resulting in the inactivation of a biol. activity of the protein due to the complexing of the functional moiety to the cobalt compd. The complexes of the invention are complexes of Co(II) or Co(III) with a tetridentate Schiff base. The compds. of the invention are useful e.g. as agents for reducing the biol. activity of proteins (e.g. enzymes), as general bacteriostatic or bactericidal agents, as antimicrobial and/or antiviral agents, as reducing agents, or for protein labeling. Prepn. of e.g. [Co(III)acacen(NH3)2]Cl is described, as is inhibition of carbonic anhydrase, thermolysin, thrombin, and zinc finger-contg. transcription factor Sp1 by compds. of the invention.

IC ICM A61K031-555

ICS A61K031-295; C07F015-02

CC 1-5 (Pharmacology)

Section cross-reference(s): 7, 9, 23, 78

IT 179555-47-6P 179555-48-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(cobalt Schiff-base complex prepn. for inhibiting enzymes or other proteins, for bactericides and antimicrobials, for labeling proteins, and for other uses)

IT 179555-42-1P 179555-43-2DP, reaction products with Schiff base-cobalt complex

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(cobalt Schiff-base complex prepn. for inhibiting enzymes or other proteins, for bactericides and antimicrobials, for labeling proteins, and for other uses)

IT 15907-18-3P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(cobalt Schiff-base complex prepn. for inhibiting enzymes or other proteins, for bactericides and antimicrobials, for labeling proteins, and for other uses)

IT 179555-47-6P

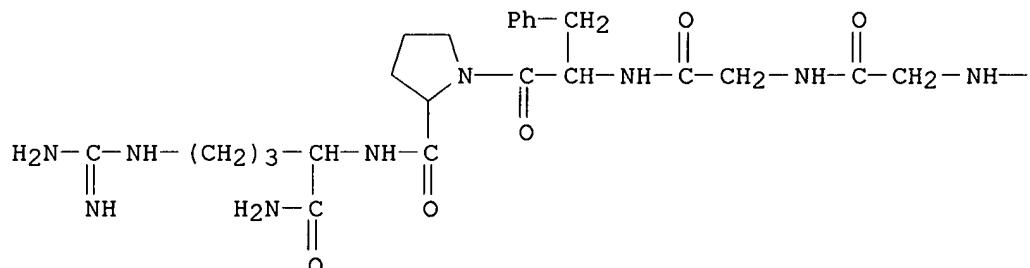
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(cobalt Schiff-base complex prepn. for inhibiting enzymes or other proteins, for bactericides and antimicrobials, for labeling proteins, and for other uses)

RN 179555-47-6 HCAPLUS

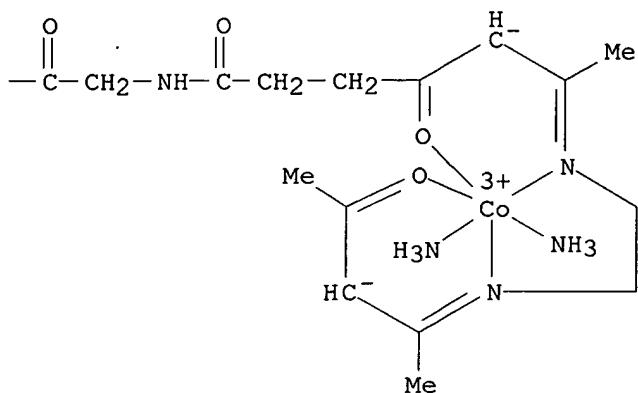
CN Cobalt(1+), diammine[N-[6-[[2-[[1-methyl-3-(oxo-.kappa.O)butylidene]amino-.kappa.N]ethyl]imino-.kappa.N]-1-oxo-4-(oxo-.kappa.O)heptyl]glycylglycylglycyl-L-phenylalanyl-L-prolyl-L-argininamidato(2-)]-, chloride, (OC-6-43)-(9CI) (CA INDEX NAME)

PAGE 1-A



● Cl^-

PAGE 1-B



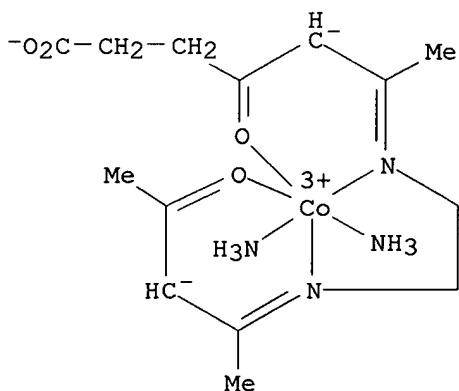
IT 179555-42-1P

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(cobalt Schiff-base complex prepn. for inhibiting enzymes or other proteins, for bactericides and antimicrobials, for labeling proteins, and for other uses)

RN 179555-42-1 HCPLUS

CN Cobalt, diammine[6-[[2-[[1-methyl-3-(oxo-.kappa.O)butylidene]amino-.kappa.N]ethyl]imino-.kappa.N]-4-(oxo-.kappa.O)heptanoato(3-)]-, (OC-6-43)- (9CI) (CA INDEX NAME)



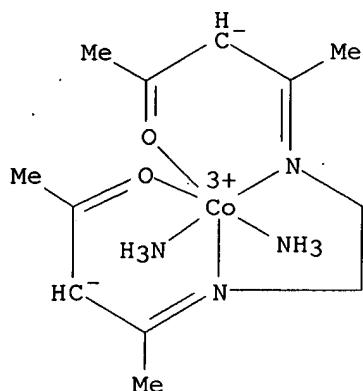
IT 15907-18-3P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(cobalt Schiff-base complex prepn. for inhibiting enzymes or other proteins, for bactericides and antimicrobials, for labeling proteins, and for other uses)

RN 15907-18-3 HCPLUS

CN Cobalt(1+), diammine[[4,4'-(1,2-ethanediyl)bis(nitrilo-.kappa.N)]bis[2-pentanonato-.kappa.O]](2-)]-, chloride, (OC-6-22)- (9CI) (CA INDEX NAME)



● Cl-

L18 ANSWER 13 OF 33 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1995:592359 HCAPLUS

DOCUMENT NUMBER: 123:101270

TITLE: New cobalt(III) chelates with ethylenediaminobis(acetylacetone)

AUTHOR(S): Ganescu, Ion; Mureseanu, Mihaela; Chirigiu, Liviu; Rusu, Olimpia

CORPORATE SOURCE: Chem. Fakultat, Univ. Craiova, Rom.

SOURCE: Analele Universitatii din Craiova, Seria Chimie (1994), 21, 77-82

CODEN: AUCCFR

PUBLISHER: Universitatea din Craiova

DOCUMENT TYPE: Journal

LANGUAGE: German

AB [Co(ec)(amine)2] [ecH2 = the tetradeятate Schiff base: ethylenediaminebisacetylacetone, amine = n-hexylamine, n-heptylamine and n-octylamine] were obtained by air oxidn. of the components in dil. alc. solns. New complex salts of these chelates were prep'd. by double decompn. reactions. From spectroscopic studies in the UV and IR regions some structural problems are resolved and discussed.

CC 78-7 (Inorganic Chemicals and Reactions)

IT 165288-50-6P 165288-52-8P 165288-53-9P 165288-54-0P 165288-55-1P
 165288-57-3P 165288-58-4P 165288-59-5P 165288-60-8P 165288-62-0P
 165288-63-1P 165288-64-2P 165288-65-3P 165288-66-4P 165288-67-5P
 165288-68-6P 165288-69-7P 165288-70-0P 165754-16-5P 165754-17-6P
165754-18-7P 165754-19-8P 165754-20-1P 165754-21-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prep'n. of)

IT **165754-18-7P**

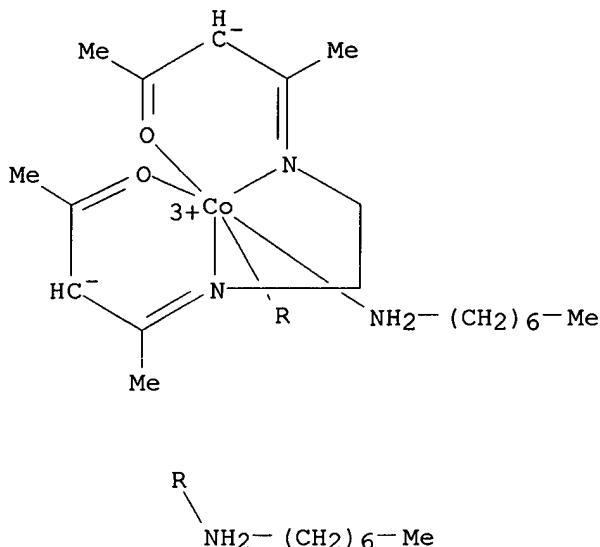
RL: SPN (Synthetic preparation); PREP (Preparation)
 (prep'n. of)

RN 165754-18-7 HCAPLUS

CN Cobalt(1+), [[4,4'-(1,2-ethanediyldinitrilo)bis[2-pentanone]](2-)-N,N',O,O']bis(1-heptanamine)-, (OC-6-22)-, (OC-6-12)-bis(1H-imidazole-N3)tetrakis(thiocyanato-N)chromate(1-) (9CI) (CA INDEX NAME)

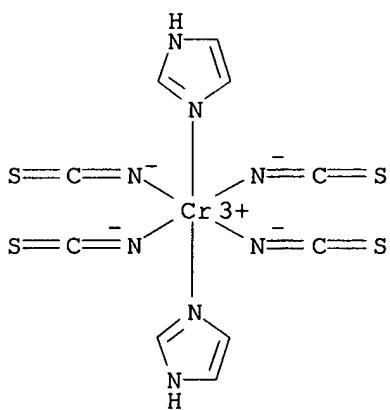
CM 1

CRN 165288-56-2
 CMF C26 H52 Co N4 O2
 CCI CCS



CM 2

CRN 84079-01-6
 CMF C10 H8 Cr N8 S4
 CCI CCS



L18 ANSWER 14 OF 33 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1992:98101 HCAPLUS
 DOCUMENT NUMBER: 116:98101
 TITLE: Metal- and metal(III)-amine salts of hexaselenocyanatoplatinic acid
 AUTHOR(S): Ganescu, Ion; Varhelyi, Csaba

CORPORATE SOURCE: Fac. Chem., Univ. Craiova, Craiova, 1100, Rom.
 SOURCE: Polish Journal of Chemistry (1991), 65(2-3), 257-67
 CODEN: PJCHDQ; ISSN: 0137-5083

DOCUMENT TYPE: Journal
 LANGUAGE: English

AB Thirty new cobalt(III)-amine (am; mostly aniline derivs.) salt of H₂[Pt(SeCN)₆] with [Co(NH₃)₆]³⁺, [Co(en)₃]³⁺, [Co(NH₃)₅NCS]²⁺, [Co(en)₂X(am)]²⁺ (X = Br, Cl), [Co(en)₂X₂]⁺, [Co(ec)(am)₂]⁺, [Co(DH)₂(am)₂]⁺ (en = ethylenediamine, ecH₂ = ethylenediaminobis(acetylacetone) DH₂ = dimethylglyoxime) were obtained and characterized. The IR spectra of some transition metal salts (Hg, Ag) show the existence of intermol. M'-NCSe-M'' bridges in the solid state. The thermal decomprn. of some derivs. was followed by derivatog.

CC 78-7 (Inorganic Chemicals and Reactions)

IT 138613-09-9P, Bis[hexaamminecobalt(2+)] tris[hexakis(selenocyanato)platinate(2-)] 138613-10-2P, Bis[tris(ethylenediamine)cobalt(3+)] tris[hexakis(selenocyanato)platinate(2-)] 138641-11-9P 138677-07-3P
 138677-08-4P 138677-09-5P 138677-10-8P 138677-11-9P 138677-14-2P
 138677-15-3P 138677-16-4P **138677-17-5P** 138677-18-6P
 138677-19-7P 138703-56-7P 138703-57-8P 138751-86-7P 138751-87-8P
 138751-88-9P 138809-04-8P 138952-34-8P 138952-37-1P 138952-38-2P
 138952-42-8P 138952-43-9P 138952-44-0P 138952-45-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

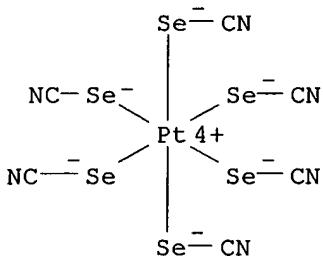
IT **138677-17-5P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 138677-17-5 HCAPLUS

CN Cobalt(1+), diammine[[4,4'-(1,2-ethanediyldinitrilo)bis[2-pentanonato]](2-)-N,N',O,O']-, (OC-6-11)-hexakis(selenocyanato-Se)platinate(2-) (2:1) (9CI) (CA INDEX NAME)

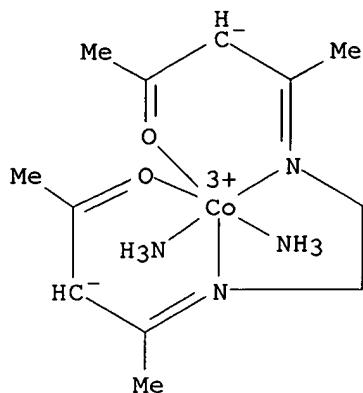
CM 1

CRN 45229-79-6
 CMF C6 N6 Pt Se6
 CCI CCS



CM 2

CRN 17835-72-2
 CMF C12 H24 Co N4 O2
 CCI CCS



L18 ANSWER 15 OF 33 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1991:669084 HCAPLUS

DOCUMENT NUMBER: 115:269084

TITLE: New tetrathiocyanatodiaminechromates containing imidazole and benzimidazole

AUTHOR(S): Ganescu, I.; Varhelyi, Cs.; Zsako, I.; Preda, M.

CORPORATE SOURCE: Dep. Anorg. Anal. Chem., Univ. Craiova, Craiova, Rom.

SOURCE: Revue Roumaine de Chimie (1990), 35(6), 767-75

CODEN: RRCHAX; ISSN: 0035-3930

DOCUMENT TYPE: Journal

LANGUAGE: German

AB The substitution reaction of anhyd. K₃[Cr(NCS)₆] with imidazole (L) and benzimidazole (Q) was studied. The formulas of the new Reineckate analogous complex anions: [Cr(NCS)₄L₂]⁻ and [Cr(NCS)₄Q₂]⁻ were established by prepn. of 44 new salts by double decomprn. reactions with the hydrochlorides of some heterocyclic N-bases, alkaloids, transition metal salts and cobalt(III) amine bases. The thermal stability of some ammonium salts of this type was studied by derivatog. From UV and IR spectral data some structural problems were resolved and discussed.

CC 78-7 (Inorganic Chemicals and Reactions)

IT	137253-89-5P	137323-16-1P	137323-17-2P	137323-18-3P	137323-19-4P
	137323-20-7P	137323-21-8P	137323-22-9P	137323-23-0P	137323-24-1P
	137323-25-2P	137323-26-3P	137323-27-4P	137431-42-6P	137431-43-7P
	137431-44-8P	137431-45-9P	137431-46-0P	137431-47-1P	137431-48-2P
	137431-49-3P	137431-50-6P	137431-51-7P	137431-52-8P	137431-53-9P
	137431-54-0P	137431-56-2P	137431-57-3P	137431-58-4P	
	137431-59-5P	137431-60-8P	137431-61-9P	137432-68-9P	
	137432-69-0P	137490-13-2P	137490-94-9P	137507-29-0P	137507-30-3P
	137507-31-4P	137507-32-5P	137507-33-6P	137550-97-1P	

RL: SPN (Synthetic preparation); PREP (Preparation)
(prep. of)

IT **137431-58-4P 137431-60-8P**

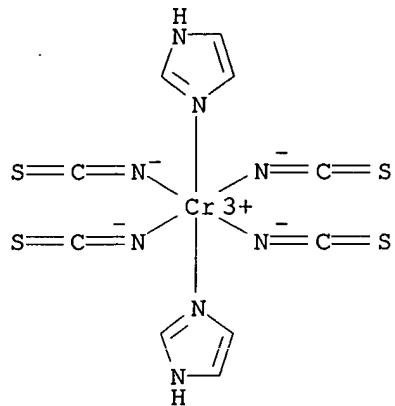
RL: SPN (Synthetic preparation); PREP (Preparation)
(prep. of)

RN 137431-58-4 HCAPLUS

CN Cobalt(1+), bis(ethanamine)[[4,4'-(1,2-ethanediyl)dinitrilo]bis[2-pentanone]](2-)-N,N',O,O']-, (OC-6-22)-, (OC-6-12)-bis(1H-imidazole-N3)tetraakis(thiocyanato-N)chromate(1-) (9CI) (CA INDEX NAME)

CM 1

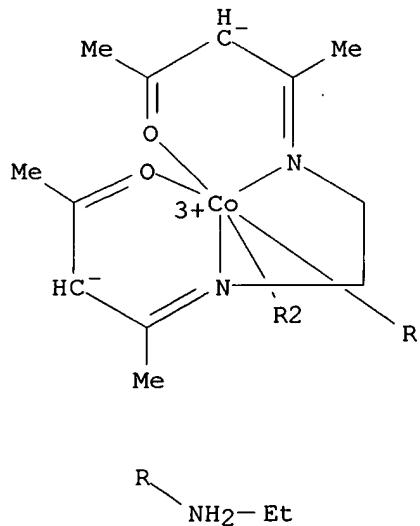
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CMF C10 H8 Cr N8 S4
CCI CCS



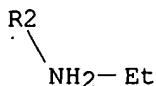
CM 2

CRN 66200-22-4
CMF C16 H32 Co N4 O2
CCI CCS

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PAGE 2-A



RN 137431-60-8 HCAPLUS

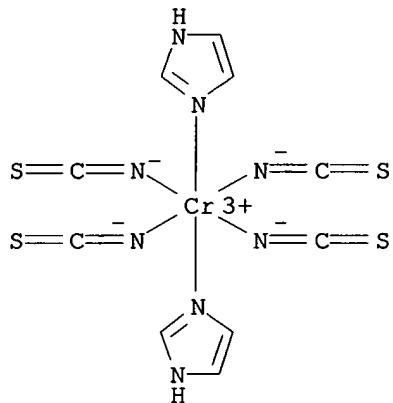
CN Cobalt(1+), [[4,4'-(1,2-ethanediyl)dinitrilo)bis[2-pentanonato]](2-)-N,N',O,O']bis(1-propanamine)-, (OC-6-22)-, (OC-6-12)-bis(1H-imidazole-3) tetrakis(thiocyanato-N) chromate(1-) (9CI) (CA INDEX NAME)

CM 1

CRN 84079-01-6

CMF C10 H8 Cr N8 S4

CCI CCS



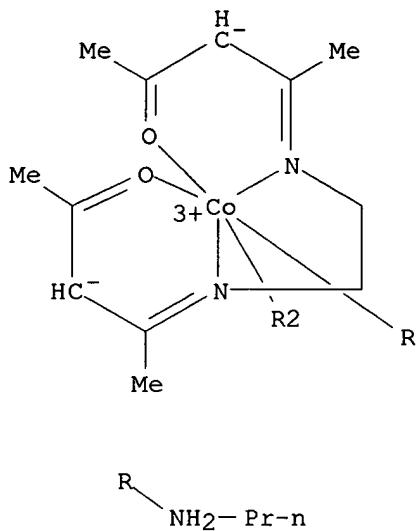
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CRN 30649-39-9

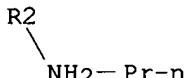
CMF C18 H36 Co N4 O2

CCI CCS

PAGE 1-A



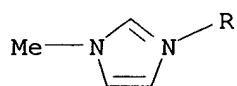
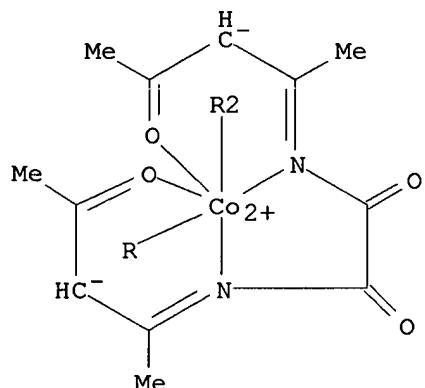
PAGE 2-A



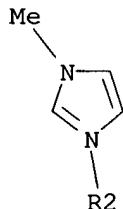
L18 ANSWER 16 OF 33 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1991:440692 HCAPLUS
 DOCUMENT NUMBER: 115:40692
 TITLE: Preparation and dioxygen binding properties of a new cobalt(II) complex and the crystal structure of the corresponding copper(II) adduct
 AUTHOR(S): Stephenson, Neil A.; Dzugan, Sharlene J.; Gallucci, Judith C.; Busch, Daryle H.
 CORPORATE SOURCE: Chem. Dep., Ohio State Univ., Columbus, OH, 43210, USA
 SOURCE: Journal of the Chemical Society, Dalton Transactions: Inorganic Chemistry (1972-1999) (1991), (150th Anniv. Celebration Issue), 733-8
 CODEN: JCDTBI; ISSN: 0300-9246
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The synthesis and characterization of $[\text{CoL}(\text{py})_2]$ (I; $\text{H}_2\text{L} = 4,4'$ -oxalyldinitrilo di(2-pentene-2-ol) is described together with $[\text{CoL}(\text{py})_2]\text{Br}$. I binds O in a reversible manner in pyridine soln. at temps. near -20°C . CuL crystallizes in the monoclinic system $P21/c$ and $a = 8.866(1)$, $b = 16.029(1)$, $c = 0.106(1)$ \AA , $\beta = 97.57(2)^\circ$ and $Z = 4$, $R = 0.0423$ and $R_1 = 0.0436$. Studies of CuL using x-ray crystallog. and IR spectroscopy guided the development of the synthetic procedure used in the isolation of the Co(II) adduct. A 6 coordinate Co(III) complex is reported as a model for the Co dioxygen adduct. Proton exchange with solvent has been obsd. using NMR spectroscopy and implications for the rational design of O carriers is discussed.

CC 78-7 (Inorganic Chemicals and Reactions)
 Section cross-reference(s): 75
 IT 134536-19-9P
 RL: PREP (Preparation)
 (formation and oxygen binding const. of)
 IT 134536-19-9P
 RL: PREP (Preparation)
 (formation and oxygen binding const. of)
 RN 134536-19-9 HCAPLUS
 CN Cobalt, [N,N'-bis(1-methyl-3-oxobutylidene)ethanediimidato(2-)-
 N1,N2,ON1,ON2]bis(1-methyl-1H-imidazole-N3)-, (OC-6-22)- (9CI) (CA INDEX
 NAME)

PAGE 1-A



PAGE 2-A

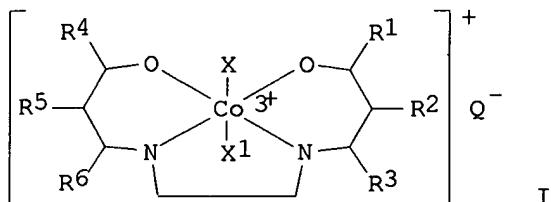


L18 ANSWER 17 OF 33 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1991:415588 HCAPLUS
 DOCUMENT NUMBER: 115:15588
 TITLE: Pharmaceuticals containing cobalt complexes for
 alleviation of undesirable symptoms associated with
 the presence of free radicals
 INVENTOR(S): Dori, Zvi; Gershon, David

PATENT ASSIGNEE(S): Chai-Tech Corp., USA
 SOURCE: PCT Int. Appl., 104 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 8
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9006119	A1	19900614	WO 1989-US5476	19891204
W: AU, JP				
RW: AT, BE, CH, DE, ES, FR, GB, IT, LU, NL, SE				
US 5049557	A	19910917	US 1988-279417	19881202
IL 92512	A1	19981206	IL 1989-92512	19891201
CA 2004534	AA	19900602	CA 1989-2004534	19891204
CA 2004534	C	19951226		
AU 9047483	A1	19900626	AU 1990-47483	19891204
AU 637340	B2	19930527		
EP 481994	A1	19920429	EP 1990-900578	19891204
EP 481994	B1	19990407		
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, LU, NL, SE				
JP 04507398	T2	19921224	JP 1990-500899	19891204
AT 178608	E	19990415	AT 1990-900578	19891204
PRIORITY APPLN. INFO.:			US 1988-279417	A 19881202
			US 1986-862804	B2 19860513
			US 1988-147713	A2 19880125
			US 1988-147714	A2 19880125
			WO 1989-US5476	A 19891204

OTHER SOURCE(S): MARPAT 115:15588
 GI



AB Pharmaceutical compn. contg. the title compds. [I; R1, R4 = alkyl, (un)substituted Ph; R2, R5 = H, alkyl, halide, RCO; R = H, alkoxy, alkyl, OH; R3, R6 = H, alkyl; X, X1 = NH3, halide, etc; Q = Cl, Br] are useful for treating inflammations or infections from wound and causing regression of tumor cells. N,N'-bis(acetylacetone)ethylenediamine in MeOH was added to CoCl2.H2O in MeOH and pH of the mixt. was adjusted to 8 with ammonia to give a product I (R1, R3, R4, R6 = Me; R2, R5 = H) (II). An injection ampul contained II 25 mg and water to 2 mL. S.c. injection of 22.7 mg II/kg body wt. to paws of mice inhibited the edema (induced by xanthine oxidase) by 69%.

IC ICM A61K031-555

CC 63-6 (Pharmaceuticals)

Section cross-reference(s): 1, 29

IT 15907-18-3P 55031-55-5P 132098-82-9P
 132098-83-0P 132114-13-7P 132114-14-8P

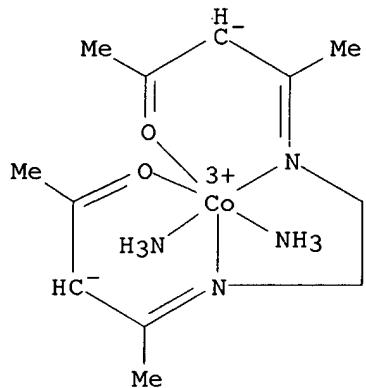
RL: PREP (Preparation)
 (prepn. of, as anti-inflammatory and antiinfective and anticancer agent)

IT 15907-18-3P 55031-55-5P 132098-82-9P
 132098-83-0P 132114-13-7P 132114-14-8P

RL: PREP (Preparation)
 (prepn. of, as anti-inflammatory and antiinfective and anticancer agent)

RN 15907-18-3 HCPLUS

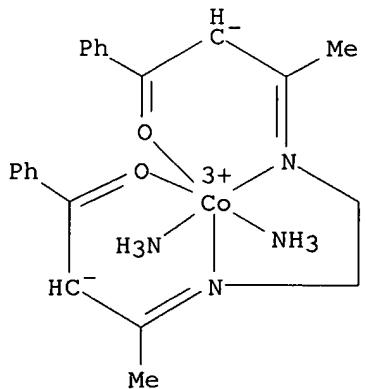
CN Cobalt(1+), diammine[[4,4'-[1,2-ethanediyl]di(nitrilo-.kappa.N)]bis[2-pantanonato-.kappa.O]](2-)-, chloride, (OC-6-22)- (9CI) (CA INDEX NAME)



● Cl^-

RN 55031-55-5 HCPLUS

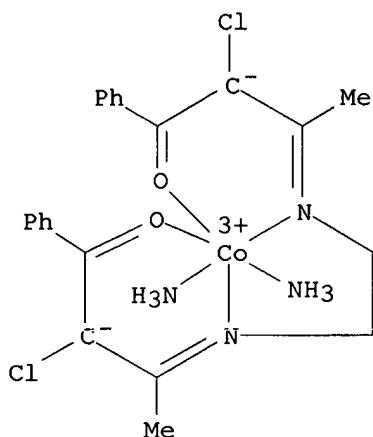
CN Cobalt(1+), diammine[[3,3'-(1,2-ethanediyl)di(nitrilo-.kappa.N)]bis[1-phenyl-1-butanonato-.kappa.O]](2-)-, chloride, (OC-6-22)- (9CI) (CA INDEX NAME)



Cl^-

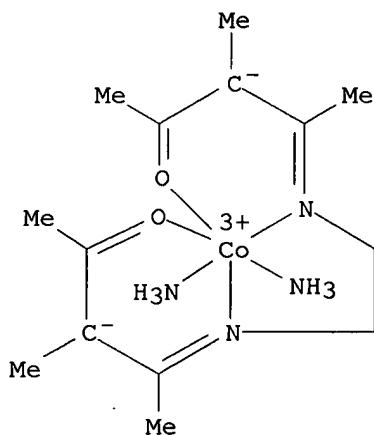
RN 132098-82-9 HCAPLUS

CN Cobalt(1+), diammine[[3,3'-(1,2-ethanediyldi(nitrilo-.kappa.N)]bis[2-chloro-1-phenyl-1-butanonato-.kappa.O]](2-)]-, bromide, (OC-6-22)- (9CI) (CA INDEX NAME)

● Br⁻

RN 132098-83-0 HCAPLUS

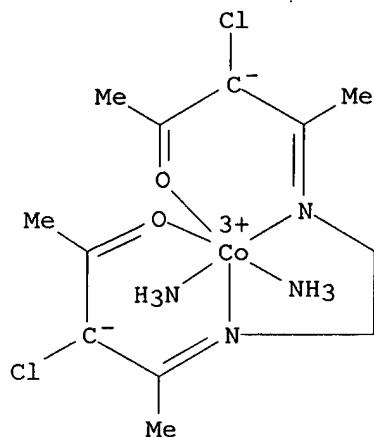
CN Cobalt(1+), diammine[[4,4'-(1,2-ethanediyldi(nitrilo-.kappa.N)]bis[3-methyl-2-pantanone-.kappa.O]](2-)]-, chloride, (OC-6-22)- (9CI) (CA INDEX NAME)

● Cl⁻

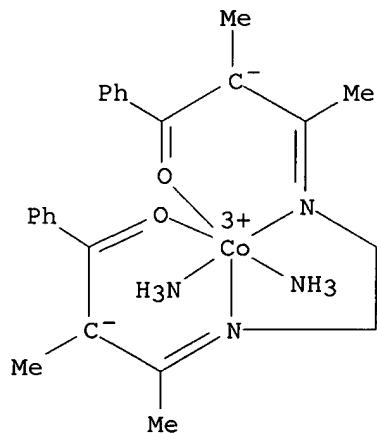
RN 132114-13-7 HCAPLUS

CN Cobalt(1+), diammine[[4,4'-(1,2-ethanediyldi(nitrilo-.kappa.N)]bis[3-chloro-2-pantanone-.kappa.O]](2-)]-, chloride, (OC-6-22)- (9CI) (CA INDEX NAME)

INDEX NAME)

● Cl⁻

RN 132114-14-8 HCPLUS

CN Cobalt(1+), diammine[[3,3'-[1,2-ethanediyl]di(nitrilo-.kappa.N)]bis[2-methyl-1-phenyl-1-butanonato-.kappa.O]](2-)]-, bromide, (OC-6-22)- (9CI)
(CA INDEX NAME)● Br⁻

L18 ANSWER 18 OF 33 HCPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1990:223288 HCPLUS

DOCUMENT NUMBER: 112:223288

TITLE: Burn treatment with a metalloorganic cobalt compound

INVENTOR(S): Dori, Zvi; Gershon, David; Scharf, Yehuda

PATENT ASSIGNEE(S): Chai-Tech Corp., USA

SOURCE: U.S., 7 pp. Cont.-in-part of U.S. Ser. No. 862,804,
abandoned.
CODEN: USXXAM

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4866053	A	19890912	US 1988-147714	19880125
IL 82376	A1	19910610	IL 1987-82376	19870430
AT 8701152	A	19930615	AT 1987-1152	19870507
AT 397036	B	19940125		
DE 3715525	A1	19880211	DE 1987-3715525	19870509
DE 3715525	C2	19980917		
GB 2190836	A1	19871202	GB 1987-11051	19870511
GB 2190836	B2	19901205		
CA 1306681	A1	19920825	CA 1987-537099	19870512
US 5049557	A	19910917	US 1988-279417	19881202
US 5106841	A	19920421	US 1990-502294	19900330
US 5142076	A	19920825	US 1990-606070	19901030
US 5210096	A	19930511	US 1991-728896	19910710
US 5756491	A	19980526	US 1991-803259	19911205
US 5258403	A	19931102	US 1992-895526	19920602
US 5409914	A	19950425	US 1993-146395	19931101
US 5587395	A	19961224	US 1995-428532	19950425
US 5753698	A	19980519	US 1996-726679	19961004
US 5886032	A	19990323	US 1998-13826	19980127
PRIORITY APPLN. INFO.:			US 1986-862804	A2 19860513
			US 1988-147713	A2 19880125
			US 1988-147714	A2 19880125
			US 1988-279417	A2 19881202
			US 1990-502294	A1 19900330
			US 1990-606070	A2 19901030
			US 1992-895526	A1 19920602
			US 1993-146395	A3 19931101
			US 1995-428532	A2 19950425
			US 1996-726679	A3 19961004

AB A new method of treating a burn is disclosed wherein a Co-contg. metalloorg. complex is applied to the burn site to promote epithelialization and in some cases hair follicle preservation as well. The metalloorg. compd. is selected from a Co(III)-bis(acetyl- or propionylacetone)ethylenediamine complex, [Co(2,3,9,10-tetra(lower alkyl)-1,4,8,11-tetraazacyclotetradeca-1,3,8,10-tetraene)Cl₂]Cl, and [Co(2,12-dimethyl-3,7,11,17-tetraazabicyclo[11.3.1]heptadeca-1(17),2,11,13,15-pentaene)Cl₂]Cl·H₂O. The prepn. of the complexes, pharmaceutical formulations, and burn wound healing in the guinea pig are described.

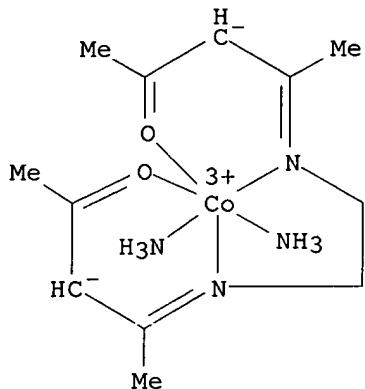
IC ICM A61K031-40
ICS A61K031-295; A61K031-555
NCL 514184000
CC 63-6 (Pharmaceuticals)
Section cross-reference(s): 1, 29
IT 15907-18-3P 39177-13-4P 55031-55-5P 126928-50-5P
RL: PREP (Preparation)
(prepn. of, for burn treatment)
IT 15907-18-3P 55031-55-5P

RL: PREP (Preparation)

(prep. of, for burn treatment)

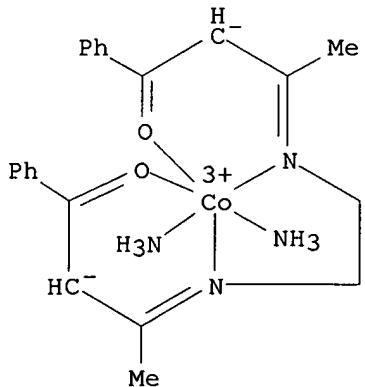
RN 15907-18-3 HCPLUS

CN Cobalt(1+), diammine[[4,4'-(1,2-ethanediyl)bis(nitrilo-.kappa.N)]bis[2-pentanone-.kappa.O]](2-)-, chloride, (OC-6-22)- (9CI) (CA INDEX NAME)

● Cl⁻

RN 55031-55-5 HCPLUS

CN Cobalt(1+), diammine[[3,3'-(1,2-ethanediyl)bis(nitrilo-.kappa.N)]bis[1-phenyl-1-butanone-.kappa.O]](2-)-, chloride, (OC-6-22)- (9CI) (CA INDEX NAME)

● Cl⁻

L18 ANSWER 19 OF 33 HCPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1990:170885 HCPLUS

DOCUMENT NUMBER: 112:170885

TITLE: Cobalt(III) mixed chelates with tetradeятate

N,N'-bis(1-1-methoxy-3-benzoylacetone)ethylenediamine and bidentate chelate. Control of chelate configuration (cis-.alpha., cis-.beta.) by bidentate ligand

AUTHOR(S): Kumagai, Naohisa; Okawa, Hisashi; Ueda, Koichi; Kida, Sigeo

CORPORATE SOURCE: Fac. Sci., Kyushu Univ., Fukuoka, 812, Japan

SOURCE: Memoirs of the Faculty of Science, Kyushu University, Series C: Chemistry (1989), 17(1), 69-72

CODEN: MFKCAL; ISSN: 0085-2635

DOCUMENT TYPE: Journal

LANGUAGE: English

AB CoL (H₂L = bis(1-1-methoxy-3-benzoylacetone)ethylenediamine) reacts with various bidentate ligands (A) in aerobic conditions to afford [CoLA]_n (n = 1+, 0, 1-). The mixed chelates with aliph. diamines adopt the cis-.alpha. configuration whereas the mixed chelates with arom. diamines, picolinate ion, 9,10-phenanthrenequinone, or lactate ion adopt the cis-.beta. configuration. [CoLA₂]⁺ were obtained by use of aminoalcs. which function as a unidentate ligand through N to afford trans 6-coordination around the metal ion.

CC 78-7 (Inorganic Chemicals and Reactions)

IT 125954-83-8P 125954-85-0P 125954-86-1P 125954-88-3P 125954-90-7P
125954-92-9P **125954-94-1P** 125977-52-8P 125977-54-0P
126420-71-1P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and electronic spectrum of)

IT **125954-94-1P**

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and electronic spectrum of)

RN 125954-94-1 HCPLUS

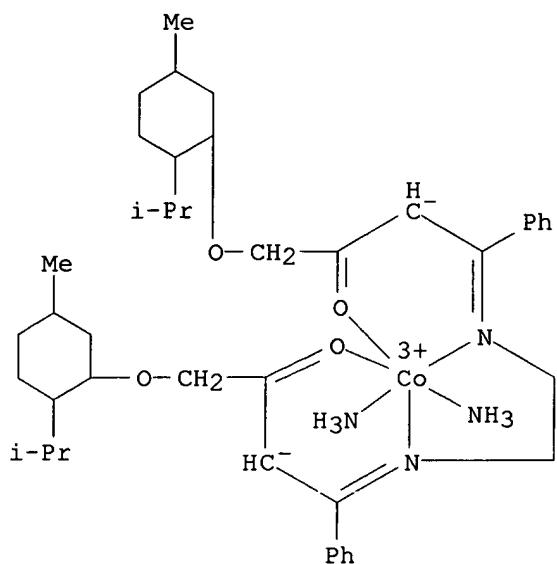
CN Cobalt(1+), diammine[[4,4'-(1,2-ethanediyldinitrilo)bis[1-[[5-methyl-2-(1-methylethyl)cyclohexyl]oxy]-4-phenyl-2-butanonato]](2)-N₄,N₄',O₂,O₂']-, [OC-6-22-[1R-[1.alpha.(1R*,2S*,5R*),2.beta.,5.alpha.]]]-, hexafluorophosphate(1-) (9CI) (CA INDEX NAME)

CM 1

CRN 125954-93-0

CMF C42 H64 Co N4 O4

CCI CCS

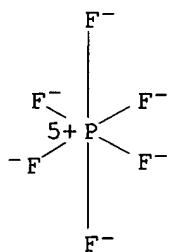


CM 2

CRN 16919-18-9

CMF F6 P

CCI CCS



L18 ANSWER 20 OF 33 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1990:15518 HCAPLUS

DOCUMENT NUMBER: 112:15518

TITLE: New cobalt chelates with ethylenediaminebis(benzoylacetone)

AUTHOR(S): Marcu, G.; Varhelyi, C.; Fulop, J.; Itul, Dana

CORPORATE SOURCE: Fac. Chem. Technol., Univ. Cluj-Napoca, Cluj-Napoca, Rom.

SOURCE: Revue Roumaine de Chimie (1989), 34(4), 1029-35

CODEN: RRCHAX; ISSN: 0035-3930

DOCUMENT TYPE: Journal

LANGUAGE: English

AB [Co(benzec)(NH₃)₂]X, [Co(benzec)L₂]X and Co(benzec) (L = imidazole; benzecH₂ = ethylenediaminebis(benzoylacetone)) were obtained and characterized by IR and UV spectra. The thermal decomprn. of some was

followed by derivatog. measurements.

CC 78-7 (Inorganic Chemicals and Reactions)

IT **123923-97-7P 123923-98-8P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and metathesis of)

IT 16087-30-2P **55031-55-5P 123923-74-0P**
123923-75-1P 123923-77-3P 123923-78-4P
123923-79-5P 123923-80-8P 123923-81-9P
123923-82-0P 123923-84-2P 123923-85-3P
123923-86-4P 123923-88-6P 123943-70-4P
123943-71-5P 123943-72-6P 123943-73-7P
123943-74-8P 124011-02-5P 124237-87-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

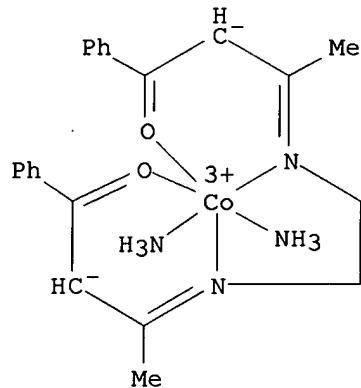
IT **123923-97-7P 123923-98-8P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and metathesis of)

RN 123923-97-7 HCPLUS

CN Cobalt(1+), diammine[[3,3'-(1,2-ethanediyl)dinitrilo)bis[1-phenyl-1-butanonato]](2-)-N,N',O,O']-, (OC-6-22)-, acetate (9CI) (CA INDEX NAME)

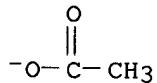
CM 1

CRN 123923-76-2
 CMF C22 H28 Co N4 O2
 CCI CCS



CM 2

CRN 71-50-1
 CMF C2 H3 O2



RN 123923-98-8 HCPLUS

CN Cobalt(1+), [[3,3'-(1,2-ethanediyl)dinitrilo)bis[1-phenyl-1-butanonato]](2-)-N,N',O,O']bis(1H-imidazole-N3)-, (OC-6-33)-, acetate (9CI) (CA INDEX NAME)

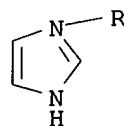
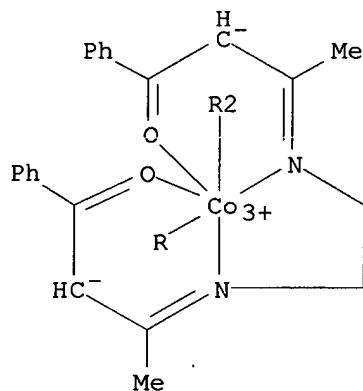
CM 1

CRN 123923-83-1

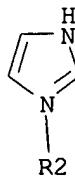
CMF C28 H30 Co N6 O2

CCI CCS

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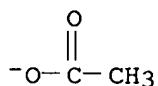
PAGE 2-A



CM 2

CRN 71-50-1

CMF C2 H3 O2

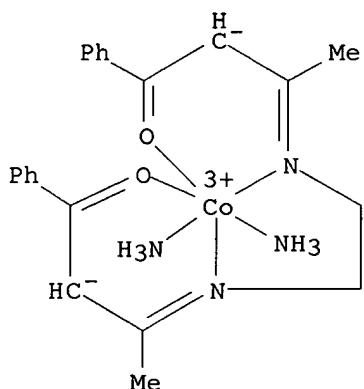


IT 55031-55-5P 123923-74-0P 123923-75-1P
 123923-77-3P 123923-78-4P 123923-79-5P
 123923-80-8P 123923-81-9P 123923-82-0P
 123923-84-2P 123923-85-3P 123923-86-4P
 123923-88-6P 123943-70-4P 123943-71-5P
 123943-72-6P 123943-73-7P 123943-74-8P
 124011-02-5P 124237-87-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 55031-55-5 HCPLUS

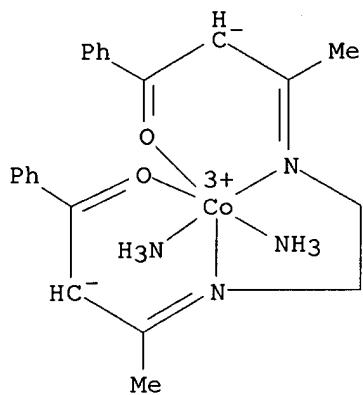
CN Cobalt(1+), diammmine[[3,3'-(1,2-ethanediyl)dinitrilo-.kappa.N)]bis[1-phenyl-1-butanonato-.kappa.O]](2-)-, chloride, (OC-6-22)- (9CI) (CA INDEX NAME)



● Cl-

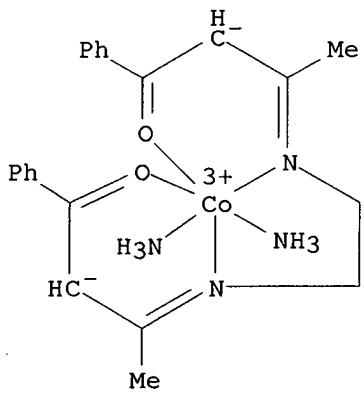
RN 123923-74-0 HCPLUS

CN Cobalt(1+), diammmine[[3,3'-(1,2-ethanediyl)dinitrilo)bis[1-phenyl-1-butanonato]](2-)-N,N',O,O']-, bromide, (OC-6-22)- (9CI) (CA INDEX NAME)

● Br⁻

RN 123923-75-1 HCAPLUS

CN Cobalt(1+), diammine[[3,3'-(1,2-ethanediyl)dinitrilo)bis[1-phenyl-1-butanonato]](2--N,N',O,O')-, iodide, (OC-6-22)- (9CI) (CA INDEX NAME)

● I⁻

RN 123923-77-3 HCAPLUS

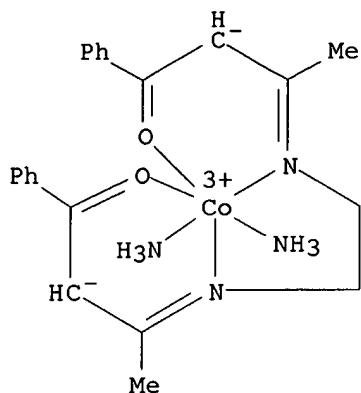
CN Cobalt(1+), diammine[[3,3'-(1,2-ethanediyl)dinitrilo)bis[1-phenyl-1-butanonato]](2--N,N',O,O')-, (OC-6-22)-, nitrate (9CI) (CA INDEX NAME)

CM 1

CRN 123923-76-2

CMF C22 H28 Co N4 O2

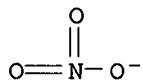
CCI CCS



CM 2

CRN 14797-55-8

CMF N O3



RN 123923-78-4 HCPLUS

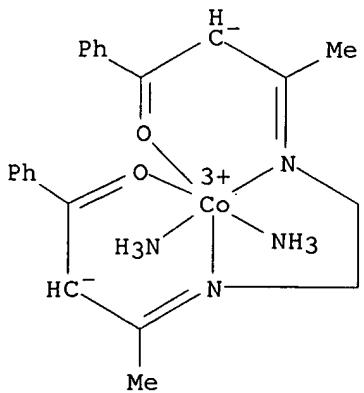
CN Cobalt(1+), diammmine[[3,3'-(1,2-ethanediyl)dinitrilo)bis[1-phenyl-1-butanonato]](2-)N,N',O,O']-, (OC-6-22)-, perchlorate (9CI) (CA INDEX NAME)

CM 1

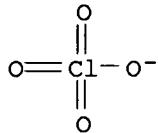
CRN 123923-76-2

CMF C22 H28 Co N4 O2

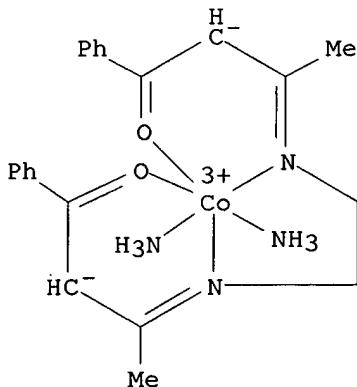
CCI CCS



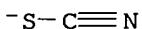
CM 2

CRN 14797-73-0
CMF Cl O4RN 123923-79-5 HCAPLUS
CN Cobalt(1+), diammine[[3,3'-(1,2-ethanediylidinitrilo)bis[1-phenyl-1-butanonato]](2--N,N',O,O')-, (OC-6-22)-, thiocyanate (9CI) (CA INDEX NAME)

CM 1

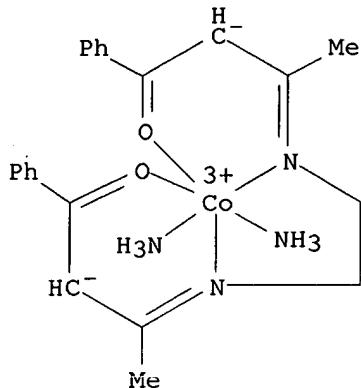
CRN 123923-76-2
CMF C22 H28 Co N4 O2
CCI CCS

CM 2

CRN 302-04-5
CMF C N SRN 123923-80-8 HCAPLUS
CN Cobalt(1+), diammine[[3,3'-(1,2-ethanediylidinitrilo)bis[1-phenyl-1-butanonato]](2--N,N',O,O')-, (OC-6-22)-, trithionate (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 123923-76-2
 CMF C22 H28 Co N4 O2
 CCI CCS



CM 2

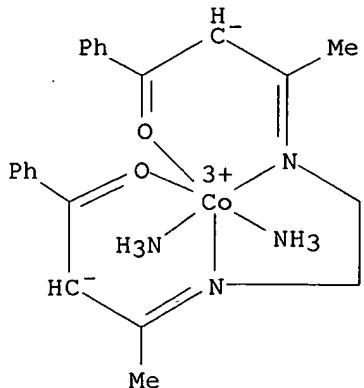
CRN 15579-17-6
 CMF O6 S3

-O₃S-SO₃-

RN 123923-81-9 HCPLUS
 CN Cobalt(1+), diammine[[3,3'-(1,2-ethanediylidinitrilo)bis[1-phenyl-1-butanonato]](2-)-N,N',O,O']-, (OC-6-22)-, salt with peroxydisulfuric acid ([(HO)S(O)2]2O2) (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 123923-76-2
 CMF C22 H28 Co N4 O2
 CCI CCS



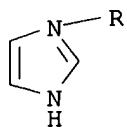
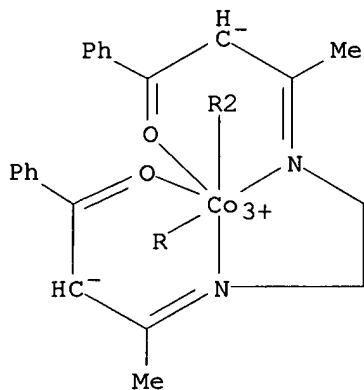
CM 2

CRN 15092-81-6
CMF O8 S2

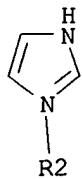
-O₃S-O-O-SO₃-

RN 123923-82-0 HCPLUS
CN Cobalt(1+), [[3,3'-(1,2-ethanediyl)dinitrilo)bis[1-phenyl-1-butanonato]](2-)-N,N',O,O']bis(1H-imidazole-N3)-, iodide, (OC-6-33)- (9CI) (CA INDEX NAME)

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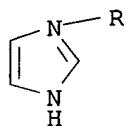
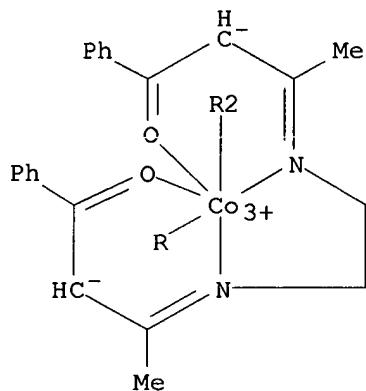
I-

RN 123923-84-2 HCAPLUS
 CN Cobalt(1+), [[3,3'-(1,2-ethanediyl)dinitrilo)bis[1-phenyl-1-butanonato]](2-
)-N,N',O,O']bis(1H-imidazole-N3)-, (OC-6-33)-, salt with
 2,4,6-trinitrophenol (1:1) (9CI) (CA INDEX NAME)

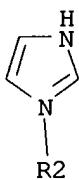
CM 1

CRN 123923-83-1
 CMF C28 H30 Co N6 O2
 CCI CCS

PAGE 1-A

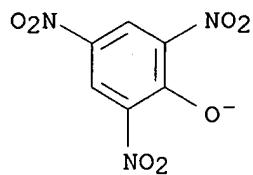


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CM 2

CRN 14798-26-6
 CMF C6 H2 N3 O7



RN 123923-85-3 HCAPLUS

CN Cobalt(1+), [[3,3'-(1,2-ethanediyl)dinitrilo)bis[1-phenyl-1-butanonato]](2-)-N,N',O,O']bis(1H-imidazole-N3)-, (OC-6-33)-, (OC-6-11)-diamminetetrakis(nitrito-N)cobaltate(1-) (9CI) (CA INDEX NAME)

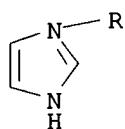
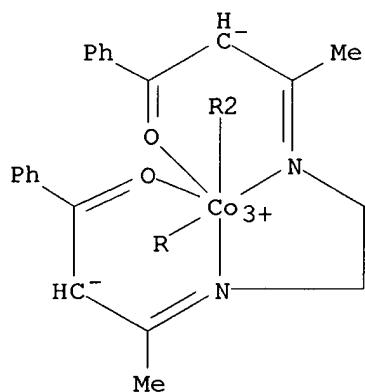
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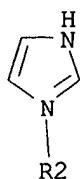
CMF C28 H30 Co N6 O2

CCI CCS

PAGE 1-A

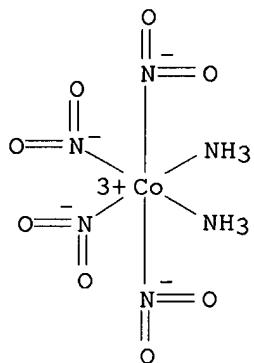


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CM 2

CRN 28526-05-8
 CMF Co H6 N6 O8
 CCI CCS

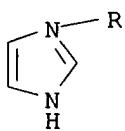
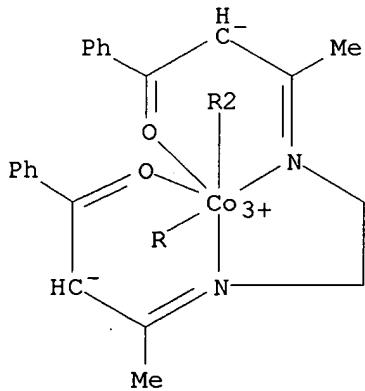


RN 123923-86-4 HCPLUS
 CN Cobalt(1+), [[3,3'-(1,2-ethanediyl)dinitrilo)bis[1-phenyl-1-butanonato]](2-)-N,N',O,O']bis(1H-imidazole-N3)-, (OC-6-33)-, (OC-6-11)-diamminetetrakis(thiocyanato-N)chromate(1-) (9CI) (CA INDEX NAME)

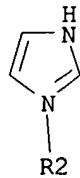
CM 1

CRN 123923-83-1
 CMF C28 H30 Co N6 O2
 CCI CCS

PAGE 1-A

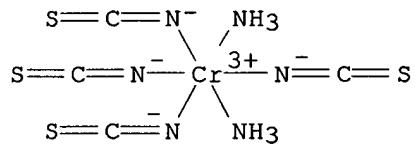


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CM 2

CRN 16248-93-4
 CMF C4 H6 Cr N6 S4
 CCI CCS

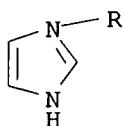
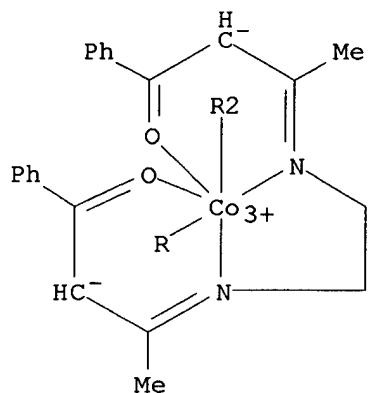


RN 123923-88-6 HCPLUS
 CN Cobalt(1+), [[3,3'-(1,2-ethanediyl)dinitrilo)bis[1-phenyl-1-butanonato]] (2-)-N,N',O,O']bis(1H-imidazole-N3)-, (OC-6-33)-, (OC-6-11)-bis(benzenamine)tetrakis(thiocyanato-N)chromate(1-) (9CI) (CA INDEX NAME)

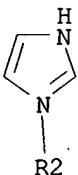
CM 1

CRN 123923-83-1
 CMF C28 H30 Co N6 O2
 CCI CCS

PAGE 1-A

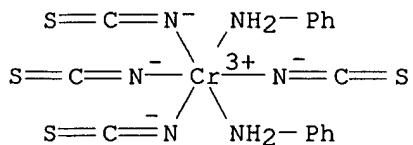


PAGE 2-A



CM 2

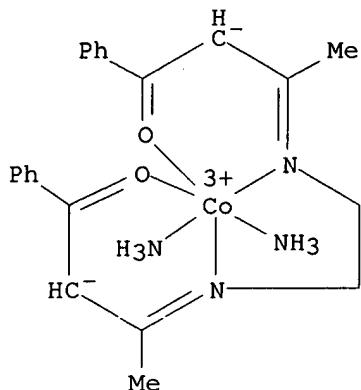
CRN 60966-58-7
 CMF C16 H14 Cr N6 S4
 CCI CCS



RN 123943-70-4 HCAPLUS
 CN Cobalt(1+), diammine[[3,3'-(1,2-ethanediyl)dinitrilo)bis[1-phenyl-1-butanonato]](2-)N,N',O,O']-, (OC-6-22)-, dithionate (2:1) (9CI) (CA INDEX NAME)

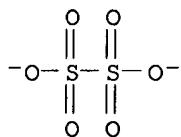
CM 1

CRN 123923-76-2
 CMF C22 H28 Co N4 O2
 CCI CCS



CM 2

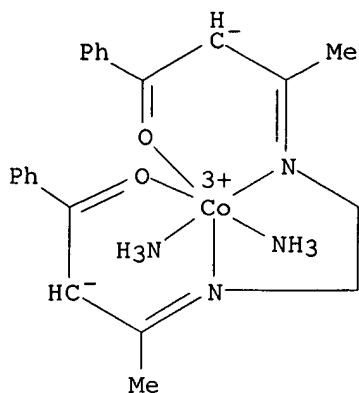
CRN 14781-81-8
 CMF O6 S2



RN 123943-71-5 HCAPLUS
 CN Cobalt(1+), diammine[[3,3'-(1,2-ethanediyl)dinitrilo)bis[1-phenyl-1-butanonato]](2-)N,N',O,O']-, (OC-6-22)-, salt with 2,4,6-trinitrophenol (1:1) (9CI) (CA INDEX NAME)

CM 1

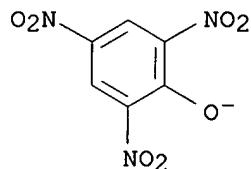
CRN 123923-76-2
 CMF C22 H28 Co N4 O2
 CCI CCS



CM 2

CRN 14798-26-6

CMF C6 H2 N3 O7



RN 123943-72-6 HCAPLUS

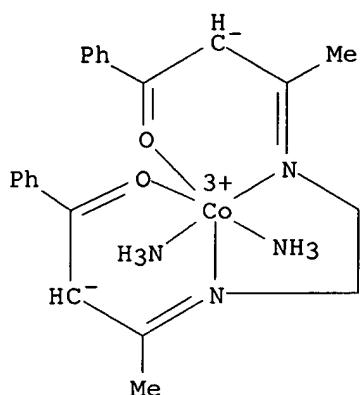
CN Cobalt(1+), diammmine[[3,3'-(1,2-ethanediyldinitrilo)bis[1-phenyl-1-butanonato]](2--N,N',O,O')-, (OC-6-22)-, (OC-6-11)-diamminetetrakis(thiocyanato-N)chromate(1-) (9CI) (CA INDEX NAME)

CM 1

CRN 123923-76-2

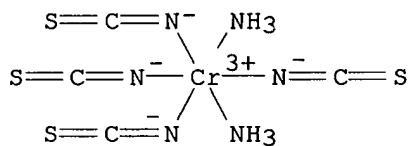
CMF C22 H28 Co N4 O2

CCI CCS



CM 2

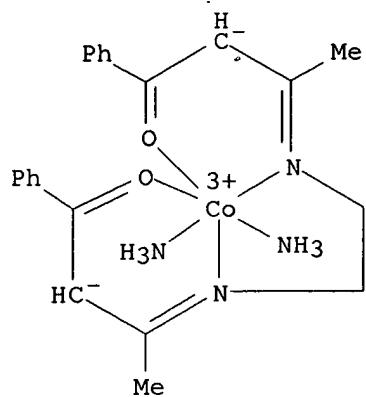
CRN 16248-93-4
 CMF C4 H6 Cr N6 S4
 CCI CCS



RN 123943-73-7 HCAPLUS
 CN Cobalt(1+), diammine[3,3'-(1,2-ethanediyl)dinitrilo]bis[1-phenyl-1-butanonato](2--N,N',O,O')-, (OC-6-22)-, (OC-6-11)-bis(benzenamine)tetrakis(thiocyanato-N)chromate(1-) (9CI) (CA INDEX NAME)

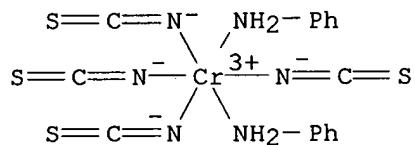
CM 1

CRN 123923-76-2
 CMF C22 H28 Co N4 O2
 CCI CCS



CM 2

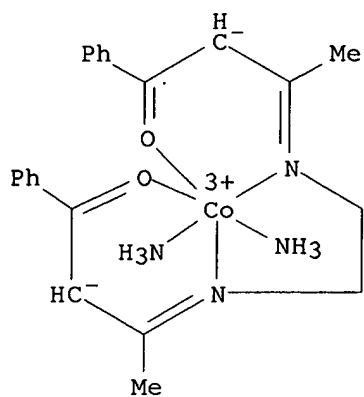
CRN 60966-58-7
 CMF C16 H14 Cr N6 S4
 CCI CCS



RN 123943-74-8 HCAPLUS
 CN Cobalt(1+), diammine[[3,3'-(1,2-ethanediyl)dinitrilo)bis[1-phenyl-1-butanonato]](2-)-N,N',O,O']-, (OC-6-22)-, (OC-6-11)-hexakis(thiocyanato-N)chromate(3-) (3:1) (9CI) (CA INDEX NAME)

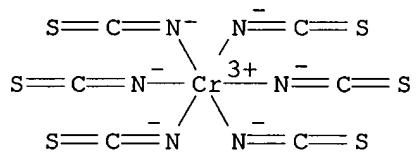
CM 1

CRN 123923-76-2
 CMF C22 H28 Co N4 O2
 CCI CCS



CM 2

CRN 15276-09-2
 CMF C6 Cr N6 S6
 CCI CCS

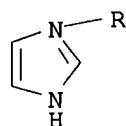
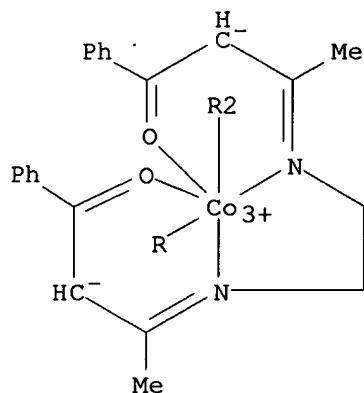


RN 124011-02-5 HCPLUS
 CN Cobalt(1+), [[3,3'-(1,2-ethanediyl)dinitrilo)bis[1-phenyl-1-butanonato]](2-)-N,N',O,O']bis(1H-imidazole-N3)-, (OC-6-33)-, perchlorate (9CI) (CA INDEX NAME)

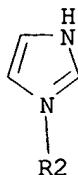
CM 1

CRN 123923-83-1
 CMF C28 H30 Co N6 O2
 CCI CCS

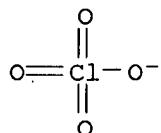
PAGE 1-A



PAGE 2-A



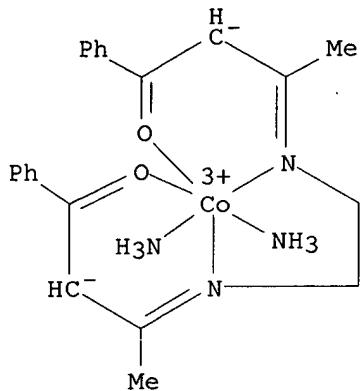
CM 2

CRN 14797-73-0
CMF Cl 04

RN 124237-87-2 HCPLUS
 CN Cobalt(1+), diammine[[3,3'-(1,2-ethanediyldinitrilo)bis[1-phenyl-1-butanonato]](2-)-N,N',O,O']-, (OC-6-22)-, (OC-6-11)-diamminetetrakis(nitrito-N)cobaltate(1-) (9CI) (CA INDEX NAME)

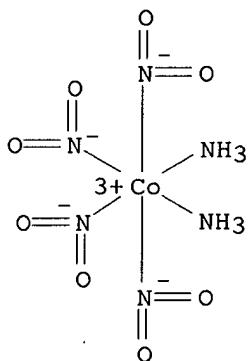
CM 1

CRN 123923-76-2
 CMF C22 H28 Co N4 O2
 CCI CCS



CM 2

CRN 28526-05-8
 CMF Co H6 N6 O8
 CCI CCS



L18 ANSWER 21 OF 33 HCPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1988:485028 HCPLUS
 DOCUMENT NUMBER: 109:85028
 TITLE: New tetrachloro- and tetrabromoplatinate(II)-type cobalt(III) amines
 AUTHOR(S): Varhelyi, Csaba; Ganescu, Ion
 CORPORATE SOURCE: Fac. Chem., Univ. Cluj-Napoca, Cluj-Napoca, 3400, Rom.
 SOURCE: Studia Universitatis Babes-Bolyai, Chemia (1987), 32(2), 57-60
 CODEN: SUBCAB; ISSN: 0039-3401
 DOCUMENT TYPE: Journal
 LANGUAGE: German

AB [CoL2L12]2[PtCl4].mH2O [HL = dimethylglyoxime (HDMG) H2L2 = MeCOCH2CMe:NCH2CH2N:CMcCH2COMe; L1 = py, NH3, n-xylidine, m-aminophenol, m-toluidine; m = 0 or 1], [Co(DMG)2L22]2[PtBr4].mH2O (L2 = NH3, PhNH2, m-chloroaniline, m-xylidine, p-phenetidine, .alpha.-naphthylamine, thiourea), [trans-Co(en)2X2]2[PtBr4].H2O (X = Cl, Br, NCS), [cis-Co(en)2(NCS)2]2[PtBr4], [trans-Co(pn)2Z2]2[PtBr4].mH2O (Z = NCS, Cl), and cis-[Co(en)2ClL3][PtBr4] (L+ = m-toluidine, benzylamine) were prepd. by double decompn. and characterized by chem. and thermogravimetric anal. methods.

CC 78-7 (Inorganic Chemicals and Reactions)

IT 115676-31-8P 115676-32-9P 115676-33-0P 115676-34-1P 115676-35-2P
 115676-36-3P 115676-38-5P 115676-40-9P 115676-42-1P 115676-43-2P
 115676-44-3P 115676-45-4P 115676-47-6P 115676-49-8P
 115676-51-2P 115676-52-3P 115676-54-5P 115676-55-6P 115676-56-7P
 115676-58-9P 115701-49-0P 115701-51-4P 115701-52-5P 115701-53-6P
 115731-12-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and thermal decompn. of)

IT 115676-49-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and thermal decompn. of)

RN 115676-49-8 HCPLUS

CN Cobalt(1+), diammine[[4,4'-(1,2-ethanediylidinitrilo)bis[2-pentanonato]](2-)-N,N',O,O']-, (SP-4-1)-tetrachloroplatinate(2-) (2:1), monohydrate (9CI)
 (CA INDEX NAME)

CM 1

CRN 115676-48-7

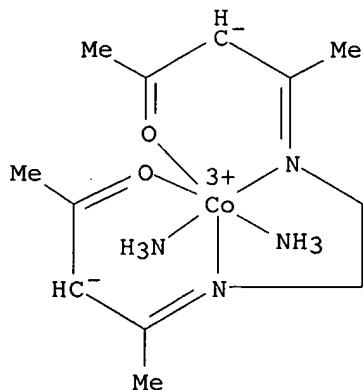
CMF C12 H24 Co N4 O2 . 1/2 Cl4 Pt

CM 2

CRN 17835-72-2

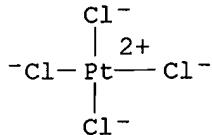
CMF C12 H24 Co N4 O2

CCI CCS



CM 3

CRN 13965-91-8
 CMF Cl4 Pt
 CCI CCS

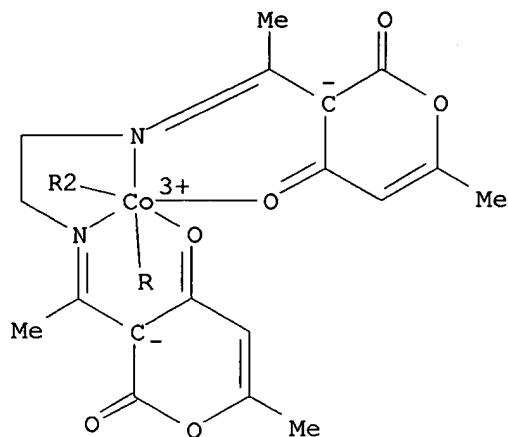


L18 ANSWER 22 OF 33 HCPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1987:450726 HCPLUS
 DOCUMENT NUMBER: 107:50726
 TITLE: Mixed-ligand cobalt(III) complexes derived from
 bis(dehydroacetato)ethylenediamine
 AUTHOR(S): Tan, Sau Fun; Ang, Kok Peng; Jayachandran, Harilakshmi
 CORPORATE SOURCE: Dep. Chem., Natl. Univ. Singapore, Singapore, 0511,
 Singapore
 SOURCE: Transition Metal Chemistry (Dordrecht, Netherlands)
 (1986), 11(12), 453-8
 CODEN: TMCHDN; ISSN: 0340-4285
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Co₂(dhaen)2(.mu.-OH)2 was obtained by reaction of
 bis(dehydroacetato)ethylenediamine (H₂dhaen) with Co(OH)₂ or Co(OAc)₂ in
 the presence of air. Addn. of a 2nd complexing agent gave 25 mixed ligand
 complexes having either the trans- or cis-.beta. configuration. In the
 cis-.beta. complexes, the quadridentate ligand dhaen adopts a nonplanar
 conformation. Configurations are distinguishable from characteristic
 differences in the electronic and NMR spectra.
 CC 78-7 (Inorganic Chemicals and Reactions)
 IT 108069-32-5P 108069-34-7P 108069-35-8P 108069-36-9P 108069-38-1P
 108069-39-2P 108069-41-6P **108069-43-8P** 108069-44-9P
 108069-45-0P 108069-46-1P 108069-47-2P **108069-48-3P**
 108069-49-4P 108069-50-7P 108069-51-8P 108069-52-9P 108069-53-0P
 108069-54-1P 108069-55-2P 108069-56-3P 108069-57-4P 108069-58-5P
 108092-95-1P 108092-96-2P 109315-99-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 IT **108069-43-8P 108069-48-3P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 108069-43-8 HCPLUS
 CN Cobalt(1+), [[3,3'-(1,2-ethanediylbis(nitriloethylidyne))bis[6-methyl-2H-pyran-2,4(3H)-dionato](2-)-N3,N3',O4,O4']]bis(1-methyl-1H-imidazole-N3)-, (OC-6-33)-, perchlorate (9CI) (CA INDEX NAME)

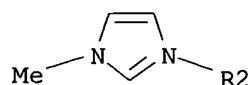
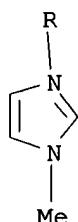
CM 1

CRN 108069-42-7
 CMF C26 H30 Co N6 O6
 CCI CCS

PAGE 1-A



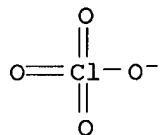
PAGE 2-A



CM 2

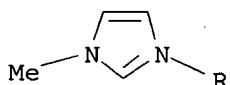
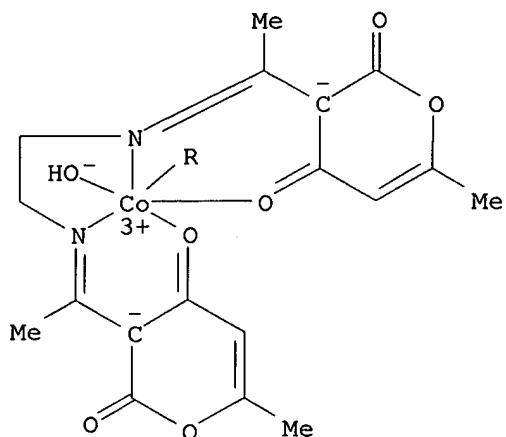
CRN 14797-73-0

CMF Cl O4



RN 108069-48-3 HCAPLUS

CN Cobalt, [[3,3'-(1,2-ethanediylbis(nitriloethylidyne)]bis[6-methyl-2H-pyran-2,4(3H)-dionato]](2-)-N3,N3',O4,O4']hydroxy(1-methyl-1H-imidazole-N3)-, (OC-6-44)- (9CI) (CA INDEX NAME)



L18 ANSWER 23 OF 33 HCPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1983:225138 HCPLUS

DOCUMENT NUMBER: 98:225138

TITLE: ESR studies of unstable six-coordinated cobalt(II) complexes produced by .gamma.-radiolysis of glassy solutions at 77 K

AUTHOR(S): Hoshino, Mikio; Konishi, Shiro; Nakajima, Masao; Imamura, Masashi

CORPORATE SOURCE: Inst. Phys. Chem. Res., Wako, 351, Japan

SOURCE: Bulletin of the Chemical Society of Japan (1983), 56(4), 1233-4

CODEN: BCSJA8; ISSN: 0009-2673

DOCUMENT TYPE: Journal

LANGUAGE: English

AB ESR spectra of .gamma.-irradiated glassy solns. of Co(II) chelates of N,N'-bis(1-methyl-3-oxobutylidene)-ethylenediamine having 2 NH₃ in the axial positions at 77 K show the formation of a metastable Co(II) complex in which 2 NH₃ are forced to be confined in the axial positions.

CC 74-1 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 73

IT 67670-44-4P

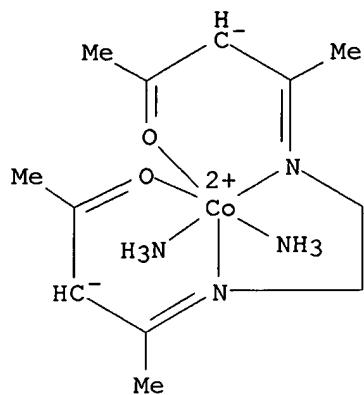
RL: FORM (Formation, nonpreparative); PREP (Preparation)
(formation of, in radiolysis of glassy soln. of cobalt chelate of bis(methyloxobutylidene)ethylenediamine)

IT 67670-44-4P

RL: FORM (Formation, nonpreparative); PREP (Preparation)
(formation of, in radiolysis of glassy soln. of cobalt chelate of bis(methyloxobutylidene)ethylenediamine)

RN 67670-44-4 HCPLUS

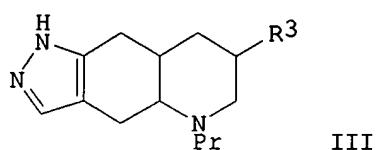
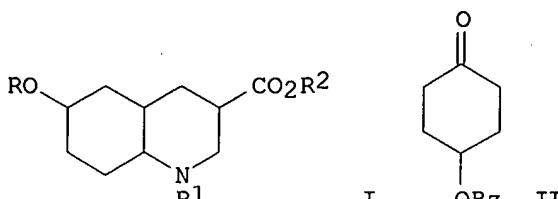
CN Cobalt, diammine[[4,4'-(1,2-ethanediylidinitrilo)bis[2-pentanone]](2-)-N,N',O,O']- (9CI) (CA INDEX NAME)



L18 ANSWER 24 OF 33 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1983:179371 HCAPLUS
 DOCUMENT NUMBER: 98:179371
 TITLE: Octahydropyrazolo[3,4-g]quinolines
 PATENT ASSIGNEE(S): Lilly, Eli, and Co., USA
 SOURCE: Can., 61 pp.
 CODEN: CAXXA4
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 6
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 1136629	A2	19821130	CA 1981-379595	19810611
US 4198415	A	19800415	US 1979-31641	19790419
CA 1136140	A1	19821123	CA 1979-330552	19790626
AT 8100217	A	19830415	AT 1981-217	19810120
AT 372947	B	19831125		
CS 227046	P	19840416	CS 1982-4440	19820615
AU 546346	B2	19850829	AU 1983-10268	19830111
AU 8310268	A1	19830414		
PRIORITY APPLN. INFO.:			US 1979-5061	19790122
			US 1979-31641	19790419
			CA 1979-330552	19790626
			AU 1979-48445	19790627
			AT 1979-4524	19790628
			CS 1979-4473	19790628

GI



AB Quinoline intermediates I ($R = H$; $R1 = \text{alkyl, allyl, CH2Ph}$; $R2 = \text{Me, Et, CH2Ph, CH2CH2Ph, CH2C6H4OMe-4}$) were prepd. from I ($R = \text{acyl}$). Thus cyclohexanone II was treated with $\text{BrCH2C}(:\text{CH2})\text{CO2Et}$ and PrNH2 then reduced to give I ($R = \text{Bz, R1 = Pr, R2 = Et}$) which was hydrolyzed to I ($R = H$). The alc. was oxidized to the ketone and treated with $(\text{MeO})2\text{CHNMe2}$, then N2H4 , to give pyrazoloquinoline III ($R3 = \text{CO2Et}$). The ester was reduced to the alc. which was mesylated and treated with MeSH to give III ($R3 = \text{CH2SMe}$) (IV). IV gave 73% prolactin inhibition at 5 mg/kg i.p. in rats. It had dopaminergic activity at 1 mg/kg i.p. in the rat turning test.

IC C07D015-06

CC 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1

IT 84535-81-9P 85405-26-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prep. a

84535-81-9P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactive intermediate)

(prep. and reaction of, with methanethiol)
24525-01-0 USP11145

RN 84535-81-9 HCAPLUS
SN Gabaldt (11) b1c (11)

CN Cobalt(1+), bis(1H-imidazole-N3) | [4,4'-{(1-methyl-1,2-ethanediyl)dinitro]biphenyl-3,3'-biphenyl-2,2'-diyl]N,N,N',N'-tetrakis(2-

ethanediyl)dinitrilo[bis[2-pentanonato]](2-)-N,N',O,O'

(OC-6-11)-diamminetetrakis(thiocyanato-N)chromate(1-) (9CI) (CA INDEX
NAME)

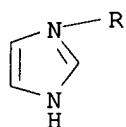
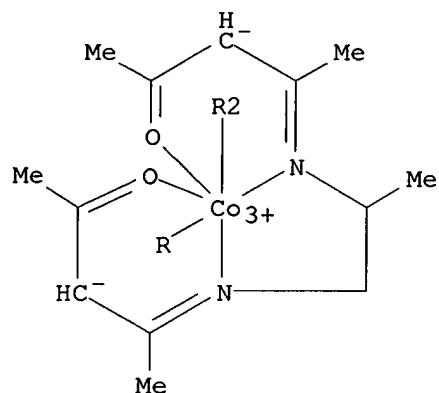
6

CBN 84535-77-3

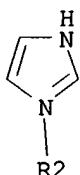
CRN 64555-77-3
CME C19 H28 Se N6 Q3

CMF C19
CC1 CCS

PAGE 1-A

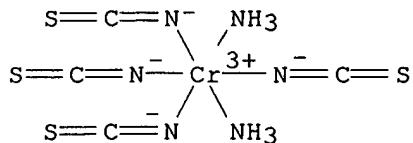


PAGE 2-A



CM 2

CRN 16248-93-4
 CMF C4 H6 Cr N6 S4
 CCI CCS



L18 ANSWER 25 OF 33 HCPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1983:171833 HCPLUS
 DOCUMENT NUMBER: 98:171833
 TITLE: Spectrophotometric and derivatographic study on some

new tetradentate mixed chelates of cobalt(III) with acetylacetone derivatives

AUTHOR(S): El Absy, Mohamed Abdel Salam; Marcu, G.; Zsako, J.; Varhelyi, C.

CORPORATE SOURCE: Nucl. Res. Cent., Cairo, Egypt

SOURCE: Revue Roumaine de Chimie (1982), 27(8), 917-25

CODEN: RRCHAX; ISSN: 0035-3930

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The prepn. and elemental anal. data are given for $[\text{CoLL12}]X \cdot n\text{H}_2\text{O}$ (H_2L = ethylenediamino- and 1,2-propanediiminobis(acetylacetone); L1 = imidazole, lutidine; X = Br, I, ClO_4 , NCS, $[\text{Cr}(\text{NCS})_4(\text{NH}_3)_2]$, $[\text{Cr}(\text{NCS})_4(\text{PhNH}_2)_2]$, BF_4 , picrate; n = 0-4), $[\text{CoLL12}]_3[\text{Cr}(\text{NCS})_6] \cdot m\text{H}_2\text{O}$ (L1 = imidazole, m = 2,4), and $[\text{CoLL1}(\text{NCS})] \cdot x\text{H}_2\text{O}$ (L1 = lutidine, x = 0, 1). Schiff bases with higher $\text{NH}_2(\text{CH}_2)_n\text{NH}_2$ (n = 4-6) showed no chelating properties. $[\text{CoLL22}]X$ (L2 = amine) could not be prepnd. when L2 was sterically unfavorable, e.g. 2-picoline, 2,6-lutidine, sym.-collidine, quinoline, and isoquinoline. The electronic spectra (12,000-50,000 cm^{-1}) are interpreted semiquant. and the thermogravimetric and DTA curves are discussed. The Racah parameter and degree of covalency for some Co complexes were calcd.

CC 78-7 (Inorganic Chemicals and Reactions)

Section cross-reference(s): 73

IT 84535-69-3P **84535-96-6P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn, electronic spectrum and ligand field parameters of)

IT **84535-76-2P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. and thermal decompn. of)

IT 84535-65-9P 84535-67-1P 84535-68-2P 84535-70-6P 84535-71-7P

84535-72-8P 84535-73-9P **84535-75-1P 84535-78-4P**

84535-79-5P 84535-80-8P 84535-81-9P

84535-82-0P 84535-83-1P 84535-84-2P 84535-85-3P

84535-95-5P 84699-77-4P 84699-78-5P **84724-14-1P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

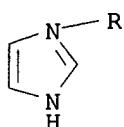
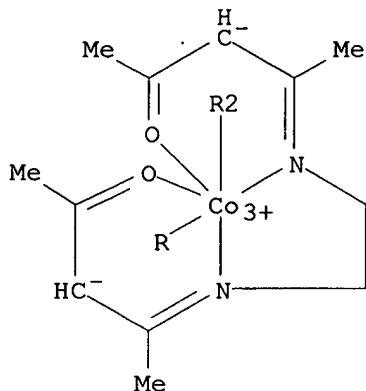
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RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn, electronic spectrum and ligand field parameters of)

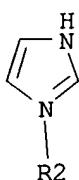
RN 84535-96-6 HCPLUS

CN Cobalt(1+), [[4,4'-(1,2-ethanediyl)dinitrilo)bis[2-pentanone]](2-)-
 $\text{N},\text{N}',\text{O},\text{O}'\text{]bis}(1\text{H-imidazole-N3})$ -, iodide (9CI) (CA INDEX NAME)

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● I⁻

IT 84535-76-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prep. and thermal decompn. of)

RN 84535-76-2 HCAPLUS

CN Cobalt(1+), [[4,4'-(1,2-ethanediylidene)dinitrilo)bis[2-pentanone]](2-)-N,N',O,O']bis(1H-imidazole-N3)-, thiocyanate (9CI) (CA INDEX NAME)

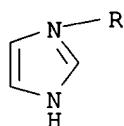
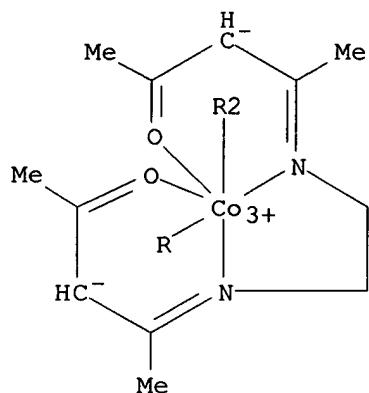
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CRN 84535-74-0

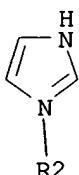
CMF C18 H26 Co N6 O2

CCI CCS

PAGE 1-A



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CM 2

CRN 302-04-5
CMF C N S

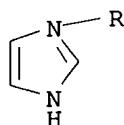
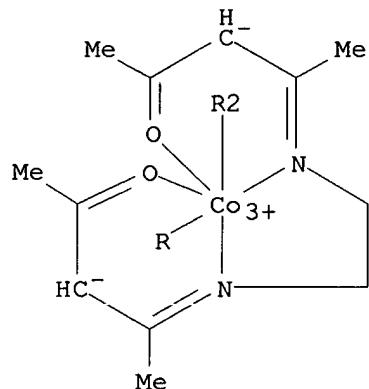
-S-C≡N

IT 84535-75-1P 84535-78-4P 84535-79-5P
 84535-80-8P 84535-81-9P 84535-82-0P
 84535-83-1P 84535-95-5P 84724-14-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prep. of)
 RN 84535-75-1 HCAPLUS
 CN Cobalt(1+), [[4,4'-(1,2-ethanediyl)dinitrilo)bis[2-pentanonato]](2-)-
 N,N',O,O')bis(1H-imidazole-N3)-, perchlorate (9CI) (CA INDEX NAME)

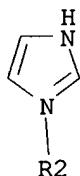
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CRN 84535-74-0
CMF C18 H26 Co N6 O2
CCI CCS

PAGE 1-A

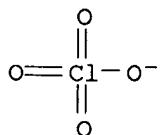


PAGE 2-A



CM 2

CRN 14797-73-0
CMF Cl O4



RN 84535-78-4 HCAPLUS

CN Cobalt(1+), bis(1H-imidazole-N3) [[4,4'-(1-methyl-1,2-ethanediyl)dinitrilo]bis[2-pentanonato]](2-)-N,N',O,O']-, perchlorate (9CI) (CA INDEX NAME)

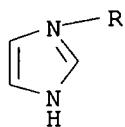
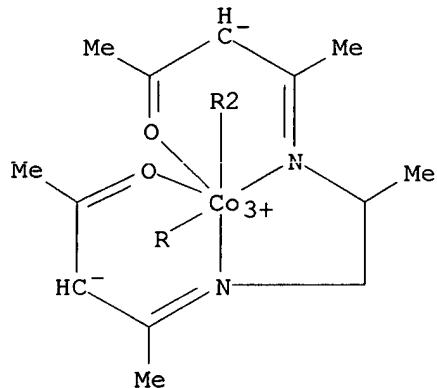
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CRN 84535-77-3

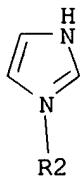
CMF C19 H28 Co N6 O2

CCI CCS

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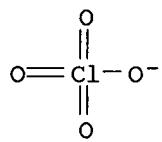
PAGE 2-A



CM 2

CRN 14797-73-0

CMF Cl O4



RN 84535-79-5 HCAPLUS

CN Cobalt(1+), bis(1H-imidazole-N3)[[4,4'-(1-methyl-1,2-ethanediyl)dinitrilo]bis[2-pentanonato]](2-)-N,N',O,O'-], thiocyanate (9CI) (CA INDEX NAME)

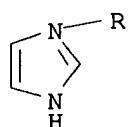
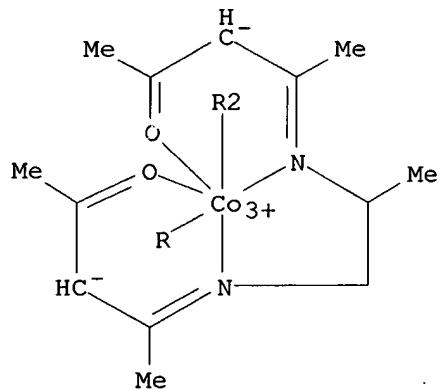
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CRN 84535-77-3

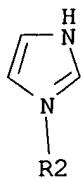
CMF C19 H28 Co N6 O2

CCI CCS

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CM 2

CRN 302-04-5
CMF C N S

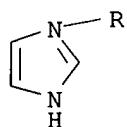
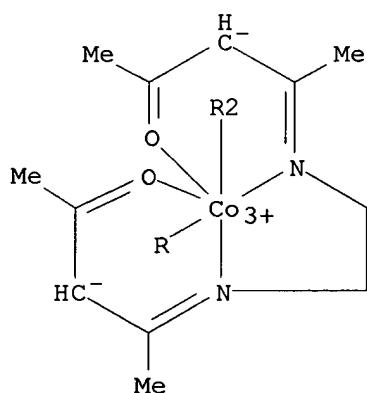
-S-C≡N

RN 84535-80-8 HCAPLUS
CN Cobalt(1+), [[4,4'-(1,2-ethanediyl)dinitrilo)bis[2-pantanone]](2-)-
N,N',O,O']bis(1H-imidazole-N3)-, (OC-6-12)-bis[(2,3-butanedione
dioximato)(1-)-N,N']bis(nitrito-N)cobaltate(1-) (9CI) (CA INDEX NAME)

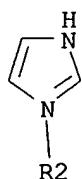
CM 1

CRN 84535-74-0
CMF C18 H26 Co N6 O2
CCI CCS

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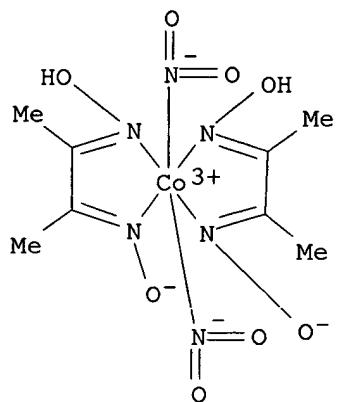


PAGE 2-A



CM 2

CRN 22174-20-5
CMF C8 H14 Co N6 O8
CCI CCS

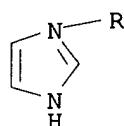
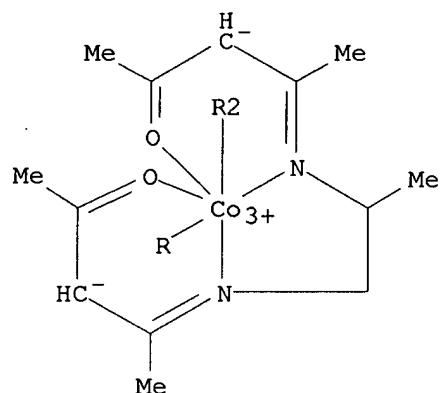


RN 84535-81-9 HCAPLUS
CN Cobalt(1+), bis(1H-imidazole-N3)[[4,4'-(1-methyl-1,2-ethanediyl)dinitrilo]bis[2-pentanone]](2-)-N,N',O,O'--, (OC-6-11)-diamminetetrakis(thiocyanato-N)chromate(1-) (9CI) (CA INDEX NAME)

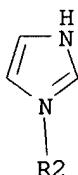
CM 1

CRN 84535-77-3
CMF C19 H28 Co N6 O2
CCI CCS

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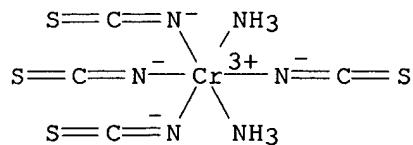


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CM 2

CRN 16248-93-4
 CMF C4 H6 Cr N6 S4
 CCI CCS

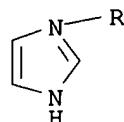
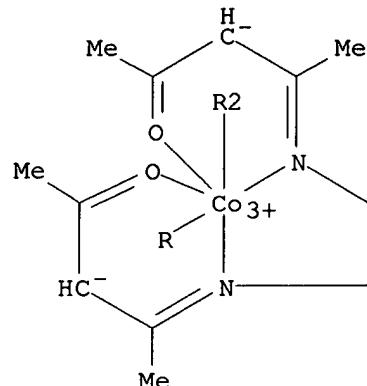


RN 84535-82-0 HCAPLUS
 CN Cobalt(1+), [[4,4'-(1,2-ethanediylidinitrilo)bis[2-pentanonato]](2-)-N,N',O,O']bis(1H-imidazole-N3)-, (OC-6-11)-hexakis(thiocyanato-N)chromate(3-) (3:1) (9CI) (CA INDEX NAME)

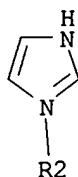
CM 1

CRN 84535-74-0
CMF C18 H26 Co N6 O2
CCI CCS

PAGE 1-A

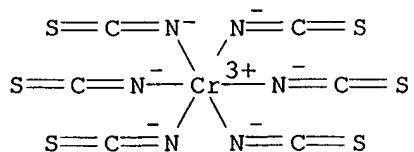


PAGE 2-A



CM 2

CRN 15276-09-2
CMF C6 Cr N6 S6
CCI CCS



RN 84535-83-1 HCAPLUS

CN Cobalt(1+), bis(1H-imidazole-N3) [[4,4'-(1-methyl-1,2-ethanediyl)dinitrilo]bis[2-pentanonato]](2-)N,N',O,O'-, (OC-6-11)-hexakis(thiocyanato-N)chromate(3-) (3:1) (9CI) (CA INDEX NAME)

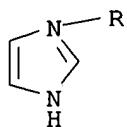
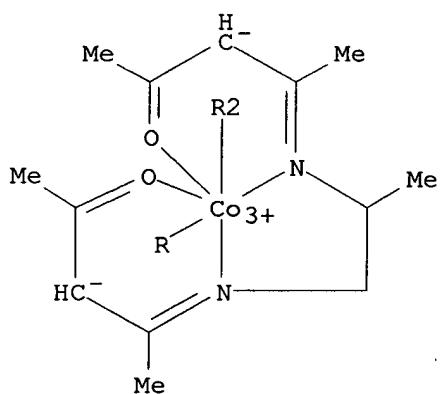
CM 1

CRN 84535-77-3

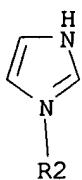
CMF C19 H28 Co N6 O2

CCI CCS

PAGE 1-A

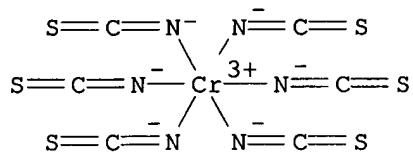


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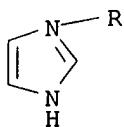
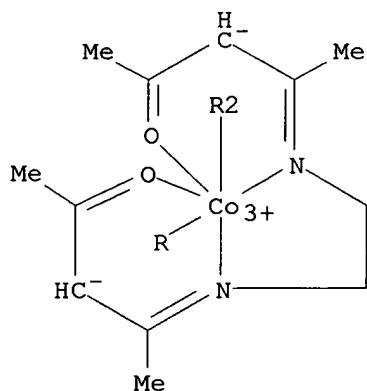
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CRN 15276-09-2
 CMF C6 Cr N6 S6
 CCI CCS

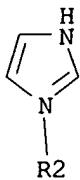


RN 84535-95-5 HCAPLUS
 CN Cobalt(1+), [[4,4'-(1,2-ethanediyl)dinitrilo)bis[2-pentanone]](2-)-N,N',O,O']bis(1H-imidazole-N3)-, bromide (9CI) (CA INDEX NAME)

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● Br⁻

RN 84724-14-1 HCPLUS

CN Cobalt(1+), bis(1H-imidazole-N3) [[4,4'-(1-methyl-1,2-ethanediyl)dinitrilo]bis[2-pentanonato]](2-)N,N',O,O']-, (OC-6-11)-bis(benzenamine)tetrakis(thiocyanato-N)chromate(1-) (9CI) (CA INDEX NAME)

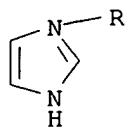
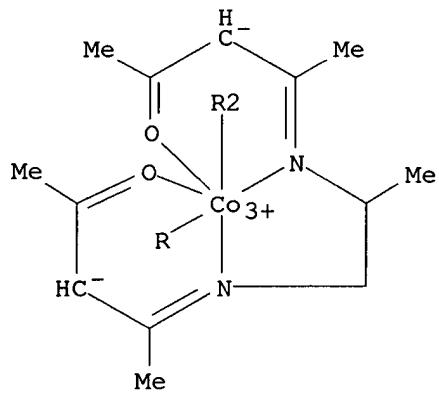
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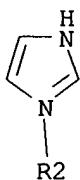
CMF C19 H28 Co N6 O2

CCI CCS

PAGE 1-A

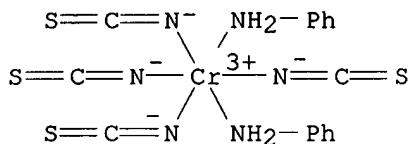


PAGE 2-A



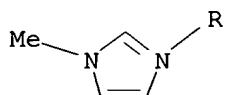
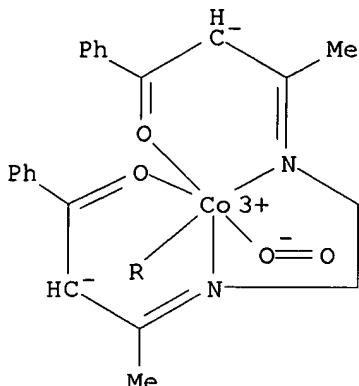
CM 2

CRN 60966-58-7
 CMF C16 H14 Cr N6 S4
 CCI CCS



L18 ANSWER 26 OF 33 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1981:525362 HCAPLUS
 DOCUMENT NUMBER: 95:125362
 TITLE: Solid-state stability of dioxygen{N,N'-ethylenebis(benzoylacetoneimino)}(organic base)cobalt complexes
 AUTHOR(S): Miyokawa, Kikuo; Masuda, Isao
 CORPORATE SOURCE: Dep. Chem., Fukuoka Univ., Fukuoka, 814, Japan
 SOURCE: Journal of Inorganic and Nuclear Chemistry (1981), 43(7), 1495-8
 CODEN: JINCAO; ISSN: 0022-1902
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The thermal stabilities of 12 CoLL1(O2) [L = pyridine or a deriv., piperidine, BuNH2; L1H2 = N,N'-ethylenebis(benzoylacetoneimine)] were detd. by thermogravimetry and differential scanning calorimetry. The dissocns. of O2 and L are simultaneous. The dissocn. temp. decreases with increasing basicity of L, suggesting that the more stable of 2 adducts in soln. is the less stable in the solid state. For L = a pyridine deriv. the peak-max. temp. of the differential scanning calorimetry curves are 35-100.degree.. CoLL1(O2) is stabilized in the solid state by a factor other than electronic and steric ones.
 CC 78-9 (Inorganic Chemicals and Reactions)
 Section cross-reference(s): 69, 77
 IT 36466-13-4P 79078-37-8P 79078-40-3P 79078-44-7P
 79086-47-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn., thermal stability, and magnetic moment of)
 IT 79078-44-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn., thermal stability, and magnetic moment of)

RN 79078-44-7 HCAPLUS
 CN Cobalt, [[3,3'-(1,2-ethanediylidinitrilo)bis[1-phenyl-1-butanonato]](2-)-N,N',O,O'](1-methyl-1H-imidazole-N3)superoxido- (9CI) (CA INDEX NAME)



L18 ANSWER 27 OF 33 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1979:80130 HCAPLUS
 DOCUMENT NUMBER: 90:80130
 TITLE: The preparation and determination of the configurations of cobalt(III) complexes containing N,N'-ethylenabis(acetylacetoneimine) and N,N',ethylenbis(salicylideneimine)
 AUTHOR(S): Takahashi, Sozo; Fujii, Yuki
 CORPORATE SOURCE: Ibaraki Tech. Coll., Katsuda, Japan
 SOURCE: Ibaraki Kogyo Koto Senmon Gakko Kenkyu Iho (1977), 12, 265-75
 CODEN: IKSID5; ISSN: 0286-3391
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The following Co(III) complexes were prep'd.: trans-[CoLQ2]ClO₄ (H₂L = [MeCOCH₂CMe:NCH₂]₂; Q₂ = NH₃, MeNH₂, py, PhNH₂). Na[CoL(NO₂)₂], trans-CoL(NO₂)(H₂O), trans-CoL(NO₂)(py), cis-.beta.-CoLZ (H₂Z = acetylacetone, benzoylacetone, 8-hydroxyquinoline), cis-.beta.-CoL'Z (H₂L' = [o-HOC₆H₄CH:NCH₂]₂), and cis-.beta.-[CoL'Q']ClO₄ and cis-.beta.-[CoL'Q']ClO₄ (Q' = ethylenediamine, 2,2'-bipyridine, 1,10-phenanthroline). The planar arrangement of the tetradeятate L and L' ligands is the most stable since that is the only arrangement obtained with the monodentate Q ligands. When the planar arrangement is not possible, as with the bidentate Q' ligands, the cis-.beta. form is always obtained. Steric interactions between the L or L' ligands and the Q' ligands also favors the cis-.beta. forms. Thus, it is concluded that the relative stabilities of the 3 configurations are: planar > cis-.beta. > cis-.alpha..
 CC 78-7 (Inorganic Chemicals and Reactions)
 IT 27660-03-3P 29270-81-3P 32089-92-2P 32089-97-7P 36250-98-3P
 38201-90-0P 38668-74-5P 38754-38-0P 38778-88-0P

39000-34-5P 39019-72-2P 39034-48-5P 39034-50-9P 39034-51-0P

39034-53-2P 39034-54-3P 49728-03-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

IT 38201-90-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 38201-90-0 HCPLUS

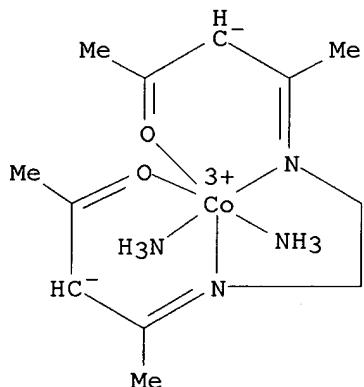
CN Cobalt(1+), diammine[[4,4'-(1,2-ethanediyl)dinitrilo)bis[2-pentanone]](2-)
-N,N',O,O']-, (OC-6-22)-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 46933-76-0

CMF C12 H24 Co N4 O2

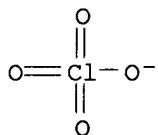
CCI CCS



CM 2

CRN 14797-73-0

CMF Cl O4



L18 ANSWER 28 OF 33 HCPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1978:522203 HCPLUS

DOCUMENT NUMBER: 89:122203

TITLE: Coordination compounds of nickel(II) and cobalt(III)
with ethylenediaminobis(acetylacetone)

AUTHOR(S): Brezina, Frantisek; Navratilova, Helena

CORPORATE SOURCE: Inst. Anorg. Phys. Chem., Palacky-Univ., Olomouc,
Czech.

SOURCE: Monatshefte fuer Chemie (1978), 109(3), 603-8

CODEN: MOCMB7; ISSN: 0026-9247

DOCUMENT TYPE: Journal
LANGUAGE: German

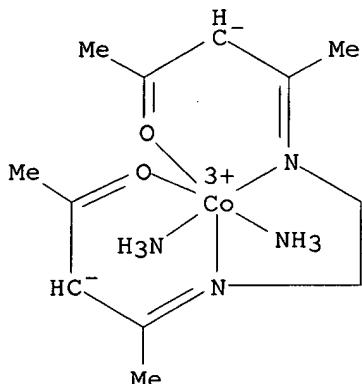
AB The prepn. of the compds. NiL and [CoL'L']X (H2L = CH3COCH2CMe:NCH2CH2N:CMCH2COCH3; L' = NH3, pyridine, .gamma.-picoline, Et2NH; X = Cl-, ClO4-, BPh4-) is reported. The complexes were studied by means of magnetic susceptibility measurements, IR, electronic, and NMR spectra, and cond. measurements.

CC 78-7 (Inorganic Chemicals and Reactions)

IT 15907-18-3P 32089-97-7P 36802-27-4P 67487-04-1P
67487-05-2P 67487-07-4P 67487-08-5P 67487-27-8P 67487-28-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)IT 15907-18-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 15907-18-3 HCPLUS

CN Cobalt(1+), diammine[4,4'-(1,2-ethanediylidene(nitrilo-.kappa.N)]bis[2-pentanone-.kappa.O](2-)]-, chloride, (OC-6-22)- (9CI) (CA INDEX NAME)



● Cl-

L18 ANSWER 29 OF 33 HCPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1977:155785 HCPLUS

DOCUMENT NUMBER: 86:155785

TITLE: Pentafluorophenyl acacen complexes of cobalt(III)

AUTHOR(S): Royo, P.; Sancho, J.

CORPORATE SOURCE: Fac. Cienc., Univ. Murcia, Murcia, Spain

SOURCE: Transition Metal Chemistry (Dordrecht, Netherlands)
(1976), 1(5), 212-15

CODEN: TMCHDN; ISSN: 0340-4285

DOCUMENT TYPE: Journal

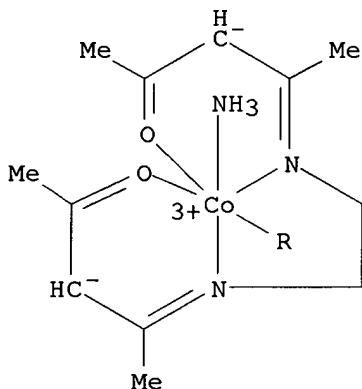
LANGUAGE: English

AB The pentacoordinate C6F5Co(acacen) (acacen = N,N'-ethylenebis(acetylacetone iminate)), complex were prepd. by Grignard reaction involving BrCo(acacen)PPh3 and by oxidative addn. of BrTl(C6F5)2 to Co(acacen). The addn. of bases to soln. of C6F5Co(acacen) gave neutral mononuclear octahedral C6F5Co(acacen)L (L = H2O, NH3, pyridine, PhCH2NH2,

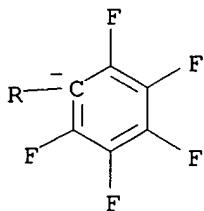
piperidine) complexes in addn. to the binuclear complex $[\text{C}_6\text{F}_5\text{Co}(\text{acacen})]_2\text{en}$ (en = ethylenediamine) and a binuclear anionic complex $[\text{C}_6\text{F}_5\text{CO}(\text{acacen})]_2\text{CN}^- \text{K}^+$.

CC 29-13 (Organometallic and Organometalloidal Compounds)
 IT 58694-58-9P 62630-08-4P 62630-09-5P 62630-10-8P 62630-21-1P
 62630-22-2P **62630-23-3P** 62630-24-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 IT **62630-23-3P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 62630-23-3 HCAPLUS
 CN Cobalt, ammine[[4,4'-(1,2-ethanediyl)dinitrilo)bis[2-pantanone]](2-)-
 N,N',O,O'](pentafluorophenyl)-, (OC-6-22)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



L18 ANSWER 30 OF 33 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1975:31492 HCAPLUS
 DOCUMENT NUMBER: 82:31492
 TITLE: Determination of the optical purity of amino acids by complex formation. Determination of optimum condition for rotational measurement
 AUTHOR(S): Fujii, Yuki
 CORPORATE SOURCE: Fac. Sci., Hiroshima Univ., Hiroshima, Japan
 SOURCE: Bulletin of the Chemical Society of Japan (1974), 47(11), 2856-61
 CODEN: BCSJA8; ISSN: 0009-2673
 DOCUMENT TYPE: Journal

LANGUAGE: English

AB The optical purity of small amts. of amino acids (alanine, valine, leucine, and glutamic acid) were detd. by dissolving in an alk. soln. of K[Co(acac₂en)(gly)₂], [acac₂en = N,N'-ethylenebis(acetylacetoneimine), gly = glycine] and observing a much larger optical rotation than the free amino acid in the visible region. 1/50 to 1/100th the amt. of an amino acid (about 0.1-0.05 grams) suffices for the detn. of optical purity as compared with that needed in the usual method. The optimum conditions for measurement are: wavelength, 500 nm; pH, 10.00; time required to establish the substitution equil., 6-8 hr; concn. of the complex, (4-5) .times. 10⁻³ mol 1-1; concn. of amino acid, (2-1) .times. 10⁻² mol 1-1.

CC 34-2 (Synthesis of Amino Acids, Peptides, and Proteins)

IT 55031-55-5P 55031-56-6P

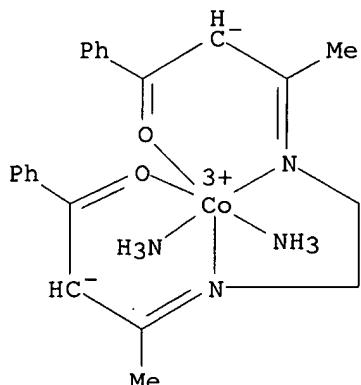
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

IT 55031-55-5P 55031-56-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

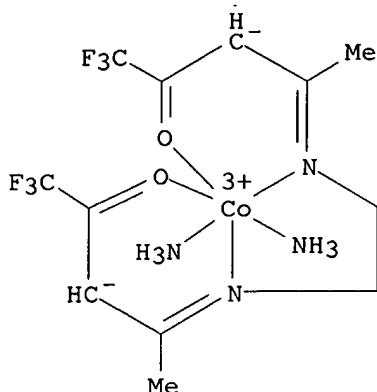
RN 55031-55-5 HCPLUS

CN Cobalt(1+), diammmine[[3,3'-(1,2-ethanediyl)bis[1-phenyl-1-butanonato-.kappa.O]](2-)]-, chloride, (OC-6-22)- (9CI) (CA INDEX NAME)

● Cl⁻

RN 55031-56-6 HCPLUS

CN Cobalt(1+), diammmine[[4,4'-(1,2-ethanediyl)dinitrilo)bis[1,1,1-trifluoro-2-pantanone]](2-)-N,N',O,O']-, chloride, (OC-6-22)- (9CI) (CA INDEX NAME)

● Cl⁻

L18 ANSWER 31 OF 33 HCPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1973:504505 HCPLUS

DOCUMENT NUMBER: 79:104505

TITLE: Transmethylation reactions of cobalt chelates

AUTHOR(S): Mestroni, Giovanni; Coceva, Claudio; Costa, Giacomo

CORPORATE SOURCE: Ist. Chim., Univ. Trieste, Trieste, Italy

SOURCE: Gazzetta Chimica Italiana (1973), 103(3), 273-85

CODEN: GCITA9; ISSN: 0016-5603

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The transmethylation from a Me-Co chelate to Co complexes having a different equatorial chelating system occurred through a Me-bridged binuclear intermediate. The intermediate was formed by electrophilic or nucleophilic attack of the acceptor Co on the satd. C atom with the Me group transferred formally as a carbanion or carbonium ion, resp. The direction of the Me transfer was correlated with the redox potential of the Co(III)-Co(II) and Co(II)-Co(I) couples.

CC 22-3 (Physical Organic Chemistry)

IT 38201-90-0P 43019-04-1P 43019-09-6P 43019-10-9P

43019-11-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

IT 38201-90-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 38201-90-0 HCPLUS

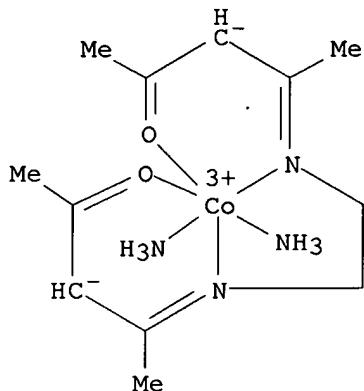
CN Cobalt(1+), diammine[[4,4'-(1,2-ethanediylidene)bis[2-pentanone]](2-)-N,N',O,O']-, (OC-6-22)-, perchlorate (9CI) (CA INDEX NAME)

CM 1

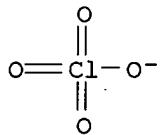
CRN 46933-76-0

CMF C12 H24 Co N4 O2

CCI CCS



CM 2

CRN 14797-73-0
CMF Cl 04

L18 ANSWER 32 OF 33 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1972:534467 HCAPLUS
 DOCUMENT NUMBER: 77:134467
 TITLE: NMR study of metal complexes containing acetylacetone and related compounds. III. Preparation and determination of the configurations of cobalt(III) complexes containing *N,N'*-ethylenebis(acetylacetoneimine) and *N,N'*-ethylenebis(salicylideneimine)
 AUTHOR(S): Fujii, Yuki; Osawa, Akio; Furukawa, Yoichiro; Ebina, Fujio; Takahashi, Sozo
 CORPORATE SOURCE: Dep. Chem., Ibaraki Univ., Mito, Japan
 SOURCE: Bulletin of the Chemical Society of Japan (1972), 45(8), 2459-64
 CODEN: BCSJA8; ISSN: 0009-2673
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Cis-.beta.-[CoXL] [H2X = 4,4'-(ethylenedinitrilo)di-2-pentanone, .alpha.,.alpha.'-(ethylenedinitrilo)di-0-cresol; HL= acetylacetone, benzoylacetone, 8-hydroxyquinoline], cis-.beta.-[CoXZ]ClO4 (Z = en, dipyridyl, 1,10-phenanthroline), trans-[CoXA2]ClO4 (A = NH3, MeNH2, py, PhNH2), and K[CoX(NO2)2] were prep'd. The isolation of only cis .beta.-form complexes in reactions between [CoX(H2O)2] and the bidentate ligands contrasts with the isolation of only trans complexes in those between [CoX(H2O)2] and the monodentate ligand. This result was explained in terms of the relative stabilities of the 3 configurations of the coordinated X ligand. From configurational anal., the relative

stabilities of the configurations are: trans-planar form > cis-.beta. form > cis-.alpha. form.

CC 78-7 (Inorganic Chemicals and Reactions)
 IT 27660-03-3P 29270-81-3P 32089-97-7P 36250-98-3P 38668-74-5P
38704-15-3P 38754-38-0P 38778-88-0P 38784-28-0P
 39000-34-5P 39019-72-2P 39019-79-9P 39034-48-5P 39034-50-9P
 39034-51-0P 39034-53-2P 39034-54-3P 39045-26-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 IT **38704-15-3P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 38704-15-3 HCAPLUS
 CN Cobalt(1+), diammine[[4,4'-(1,2-ethanediylidinitrilo)bis[2-pentanonato]](2-)-N,N',O,O']-, (OC-6-22)-, perchlorate, dihydrate (9CI) (CA INDEX NAME)

CM 1

CRN 38201-90-0

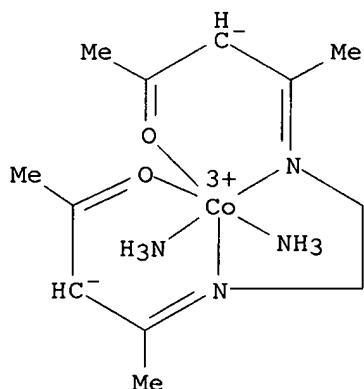
CMF C12 H24 Co N4 O2 . Cl O4

CM 2

CRN 46933-76-0

CMF C12 H24 Co N4 O2

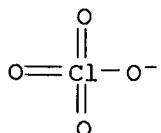
CCI CCS



CM 3

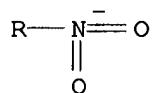
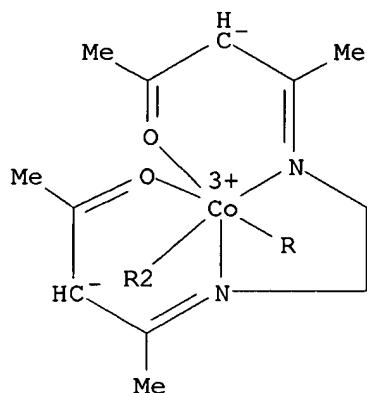
CRN 14797-73-0

CMF Cl O4

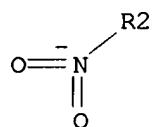


L18 ANSWER 33 OF 33 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1972:469526 HCAPLUS
 DOCUMENT NUMBER: 77:69526
 TITLE: New cobalt chelate with a tetradentate complexing agent
 AUTHOR(S): Marcu, Gh.; Varhelyi, Cs.; Muller, Ildiko
 CORPORATE SOURCE: Babes-Bolyai Univ., Cluj, Rom.
 SOURCE: Revue Roumaine de Chimie (1972), 17(4), 711-17
 CODEN: RRCHAX; ISSN: 0035-3930
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 AB Three new Co(III) amine complexes were prepd. by air oxidn. of Co(II)-salts in the presence of the tetradentate ligand, AcCH2C(Me):NCH2CH2N:CMcCH2Ac (ethylenedi-iminobisacetylacetone, H2L), and primary org. amines. Thus, [CoLL12]+, where L1 = o-anisidine, p-phenetidine, and cyclohexylamine, were prepd. Thirty cryst. complex salts were isolated and their structure established by uv and ir spectra.
 CC 78-7 (Inorganic Chemicals and Reactions)
 IT 37719-11-2P 37719-12-3P 37719-13-4P 37719-14-5P 37719-15-6P
 37719-16-7P 37719-17-8P 37719-18-9P 37719-19-0P 37753-99-4P
 37754-00-0P 37754-01-1P 37754-02-2P 37769-13-4P 37769-14-5P
 37769-15-6P 37769-16-7P 37769-17-8P 37769-18-9P 37769-19-0P
 37769-20-3P 37769-21-4P **37769-22-5P** 37769-23-6P
 37769-24-7P 37807-81-1P 37807-82-2P 37869-81-1P 37869-82-2P
 38742-07-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 IT **37769-22-5P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 37769-22-5 HCAPLUS
 CN Cobalt(1+), diammine[[4,4'-(1,2-ethanediyl)dinitrilo)bis[2-pentanonato]](2-)-N,N',O,O']-, (OC-6-22)-, (OC-6-33)-[[4,4'-(1,2-ethanediyl)dinitrilo)bis[2-pentanonato]](2-)-N,N',O,O']bis(nitrito-N)cobaltate(1-) (9CI) (CA INDEX NAME)
 CM 1
 CRN 47247-75-6
 CMF C12 H18 Co N4 O6
 CCI CCS

PAGE 1-A

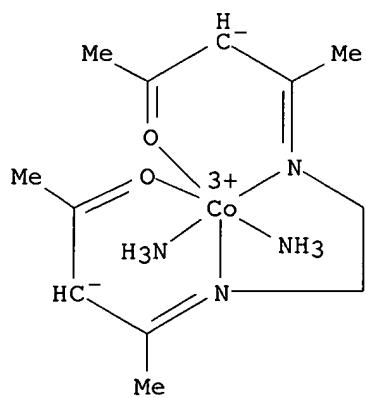


PAGE 2-A

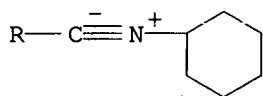
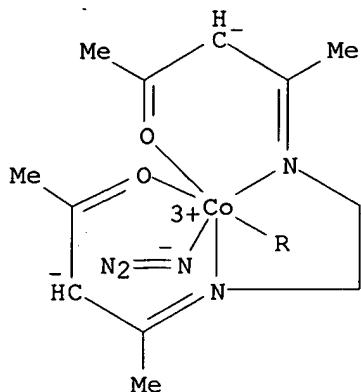


CM 2

CRN 46933-76-0
CMF C12 H24 Co N4 O2
CCI CCS



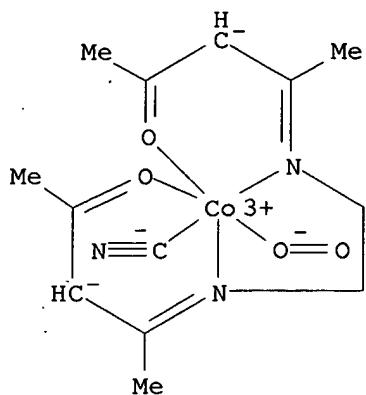
L20 ANSWER 1 OF 7 HCPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1979:168715 HCPLUS
 DOCUMENT NUMBER: 90:168715
 TITLE: Pseudohalogeno-metal compounds. L. Reactions of azidocobalt(III) chelate complexes with isocyanides
 AUTHOR(S): Fehlhammer, Wolf Peter; Kemmerich, Timm; Beck, Wolfgang
 CORPORATE SOURCE: Inst. Anorg. Chem., Univ. Muenchen, Munich, Fed. Rep. Ger.
 SOURCE: Chemische Berichte (1979), 112(2), 468-79
 CODEN: CHBEAM; ISSN: 0009-2940
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 GI For diagram(s), see printed CA Issue.
 AB Azidochelate cobalt (III) complexes, N_3CoLL_1 [$L = e.g.,$ a dianion of N,N' -o-phenylenebis(salicylideneimine) (Q), $L_1 = PPh_3$] react with org. isocyanides to give metal-C bonded tetrazolate complexes e.g., I. 2-Isocyanoethanol affords tetrazolato, or azidooxazolidin-2-ylidene complexes (II), depending on the nature of the solvent, the trans-base L_1 , and the chelate ligand.
 CC 29-13 (Organometallic and Organometalloidal Compounds)
 IT 69879-69-2P 69879-70-5P 69879-71-6P 69879-72-7P
 69890-01-3P 69890-02-4P 69890-03-5P 69890-04-6P 69890-06-8P
 69890-08-0P 69890-09-1P 69890-10-4P 69890-11-5P 69890-12-6P
 69890-13-7P 69890-14-8P 69924-19-2P 69930-46-7P 69940-84-7P
 69941-17-9P 69941-18-0P 69941-19-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 IT 69879-69-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 69879-69-2 HCPLUS
 CN Cobalt, azido[4,4'-(1,2-ethanediylidinitrilo)bis[2-pentanone]](2-)-
 N,N',O,O')(isocyanocyclohexane)-, (OC-6-33)- (9CI) (CA INDEX NAME)



L20 ANSWER 2 OF 7 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1977:155785 HCAPLUS
 DOCUMENT NUMBER: 86:155785
 TITLE: Pentafluorophenyl acacen complexes of cobalt(III)
 AUTHOR(S): Royo, P.; Sancho, J.
 CORPORATE SOURCE: Fac. Cienc., Univ. Murcia, Murcia, Spain
 SOURCE: Transition Metal Chemistry (Dordrecht, Netherlands)
 (1976), 1(5), 212-15
 CODEN: TMCHDN; ISSN: 0340-4285
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The pentacoordinate C₆F₅Co(acacen) (acacen = N,N'-ethyleneketiminate), complex were prep'd. by Grignard reaction involving BrCo(acacen)PPh₃ and by oxidative addn. of BrTl(C₆F₅)₂ to Co(acacen). The addn. of bases to soln. of C₆F₅Co(acacen) gave neutral mononuclear octahedral C₆F₅Co(acacen)L (L = H₂O, NH₃, pyridine, PhCH₂NH₂, piperidine) complexes in addn. to the binuclear complex [C₆F₅Co(acacen)]₂en (en = ethylenediamine) and a binuclear anionic complex [[C₆F₅Co(acacen)]₂CN]⁻K.
 CC 29-13 (Organometallic and Organometalloidal Compounds)
 IT 58694-58-9P 62630-08-4P 62630-09-5P **62630-10-8P**
 62630-21-1P 62630-22-2P 62630-23-3P 62630-24-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 IT **62630-10-8P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 62630-10-8 HCAPLUS
 CN Cobaltate(1-), [.mu.- (cyano-C:N)]bis[[4,4'-(1,2-ethanediyl)dinitrilo)bis[2-pantanone]](2-)N,N',O,O']bis(pentafluorophenyl)di-, potassium (9CI)
 (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L20 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1976:533024 HCAPLUS
 DOCUMENT NUMBER: 85:133024
 TITLE: Binding of dioxygen to metal complexes. The oxygen adduct of Co(acacen)
 AUTHOR(S): Dedieu, Alain; Rohmer, Marie M.; Veillard, Alain
 CORPORATE SOURCE: Univ. Louis Pasteur, Strasbourg, Fr.
 SOURCE: Journal of the American Chemical Society (1976), 98(19), 5789-800
 CODEN: JACSAT; ISSN: 0002-7863
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Ab initio LCAO-MO-SCF calcns. are reported for the oxygen adducts Co(acacen)LO₂ (with L a 5th axial ligand chosen for its .sigma. and .pi. donor or acceptor properties, L = none, H₂O, CO, CN-, and imidazole). For the bent structure of the CoO₂ unit, the ground state corresponds to the electron configuration (.pi.ga)2(.pi.gb)1 of the charge-transfer CoIII-O₂-type, in agreement with the metal to ligand charge transfer postulated previously on the basis of the EPR spectrum (.pi.ga and .pi.gb denote the dioxygen .pi.g antibonding orbitals, resp., sym. and antisym. with respect to the CoO₂ plane). The Co-O₂ bonding may be described essentially in terms of the interaction between the Co 3dz₂ orbital and the .pi.ga orbital of dioxygen. The bent structure is found to be slightly more stable than the linear one (by 4-26 kcal/mol depending on the 5th ligand L) but much more stable than the perpendicular one (the Griffith's structure) (by 46-82 kcal/mol depending on the 5th ligand). These preferences are rationalized in terms of the main metal-ligand interactions. The perpendicular structure has a ground-state configuration (.pi.gb)2(dz₂)1 or (.pi.gb)2(.pi.ga)1 (depending on the 5th ligand) with the .pi.gb orbital of dioxygen now more stable (in terms of orbital energies) than .pi.ga. This destabilization of .pi.ga (compared to .pi.gb) in the perpendicular structure is a consequence of a stronger d.pi.-p.pi. back-bonding. The destabilization of the perpendicular structure compared to the bent or linear structures appears as a consequence of a 4-electron destabilizing interaction 3d.pi.-1.pi.u. A relationship is found between the calcd. enthalpies of oxygenation, the .sigma. donor ability of the 5th ligand, and the ease of oxidn. of Co(II) to Co(III) (on the basis of Koopmans' theorem). Calcns. for the system with 1 less electron, namely [Co(acacen)LO₂]⁺, lead to the prediction that for an iron(II) porphyrin the perpendicular structure would be less stable than the bent one by 50 kcal/mol or more.
 CC 73-1 (Spectra by Absorption, Emission, Reflection, or Magnetic Resonance, and Other Optical Properties)
 IT 56295-09-1 **56295-10-4** 56295-11-5 56315-25-4
 RL: PRP (Properties)
 (MO of, binding in relation to)
 IT **56295-10-4**
 RL: PRP (Properties)
 (MO of, binding in relation to)
 RN 56295-10-4 HCAPLUS
 CN Cobaltate(1-), (cyano-C)[[4,4'-(1,2-ethanediyl)dinitrilo]bis[2-pantanonato]](2-)N,N',O,O']superoxido-, (OC-6-43)- (9CI) (CA INDEX NAME)



L20 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1976:105745 HCAPLUS

DOCUMENT NUMBER: 84:105745

TITLE: Preparation of organometallic cobalt(III)-Schiff-base complexes containing ketone or nitromethane

AUTHOR(S): Fujii, Yuki; Yoshizawa, Tadashi

CORPORATE SOURCE: Fac. Sci., Ibaraki Univ., Mito, Japan

SOURCE: Chemistry Letters (1976), (2), 117-20

CODEN: CMLTAG; ISSN: 0366-7022

DOCUMENT TYPE: Journal

LANGUAGE: English

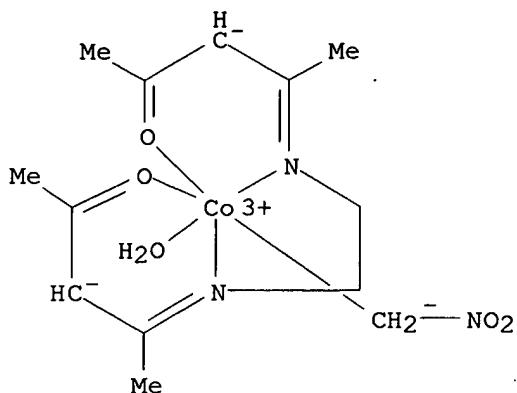
AB Mixed Co(III)-Schiff-base complexes $[\text{Co}(\text{acac2en})(\text{L})(\text{H}_2\text{O})]$ acac2en = dianion of N,N' -ethylenebis(acetylacetoneimine), L = monoanion of acetone, methyl ethyl ketone, acetophenone, or nitromethane) were prepd. from $[\text{Co}(\text{acac2en})]$ and L by air oxidn. The ligand L coordinates to the Co(III) ion with its active active methylene group.

CC 29-13 (Organometallic and Organometalloidal Compounds)

IT 59495-85-1P 59495-86-2P 59495-87-3P **59495-88-4P**RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)IT **59495-88-4P**RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 59495-88-4 HCAPLUS

CN Cobalt, aqua[[4,4'-(1,2-ethanediyl)dinitrilo)bis[2-pentanone]](2-)-N,N',O,O'](nitromethyl)-, (OC-6-33)- (9CI) (CA INDEX NAME)



L20 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1975:585596 HCAPLUS

DOCUMENT NUMBER: 83:185596

TITLE: End-on versus side-on coordination of dioxygen. Model ab initio calculations for the adducts of acetylacetonatoethylenediaminecobalt

AUTHOR(S): Rohmer, Marie M.; Dedieu, Alain; Veillard, Alain

CORPORATE SOURCE: Univ. Louis Pasteur, Strasbourg, Fr.

SOURCE: Theoretica Chimica Acta (1975), 39(2), 189-95

CODEN: TCHAAM; ISSN: 0040-5744

DOCUMENT TYPE: Journal

LANGUAGE: English

AB From ab initio calcns., the ground state electronic configuration was found for the 3 possible structures (linear, bent or perpendicular) of the cobalt-dioxygen unit in the adducts $\text{Co}(\text{acacen})\text{LO}_2$ (L = none, H_2O , CN^- , CO). The bent structure is energetically the most favorable, being slightly more stable than the linear one (by 4-26 kcal/mole depending on the 5th ligand L) but much more stable than the perpendicular one (by 46-82 kcal/mole). These results are rationalized in terms of the main metal-ligand interactions, with the bent structure stabilized by a $3\text{dz}^2-1.\text{pi}.\text{ga}$ interaction and the perpendicular structure destabilized by a 4-electron destabilizing interaction $3\text{dxz}-1.\text{pi}.\text{ga}$.

CC 73-1 (Spectra by Absorption, Emission, Reflection, or Magnetic Resonance, and Other Optical Properties)

IT 56295-08-0 56295-10-4 56295-11-5 56315-25-4

RL: PRP (Properties)

(coordination structure of oxygen mol. in)

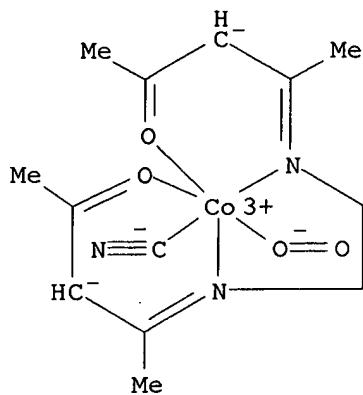
IT 56295-10-4

RL: PRP (Properties)

(coordination structure of oxygen mol. in)

RN 56295-10-4 HCAPLUS

CN Cobaltate(1-), (cyano-C)[[4,4'-(1,2-ethanediyl)dinitrilo]bis[2-pantanonato]](2-)N,N',O,O' superoxido-, (OC-6-43)- (9CI) (CA INDEX NAME)



L20 ANSWER 6 OF 7 HCPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1975:485118 HCPLUS

DOCUMENT NUMBER: 83:85118

TITLE: Electronic aspects of dioxygen binding to cobalt-Schiff base complexes. Ab initio calculation

Dedieu, Alain; Veillard, Alain

CNRS, Strasbourg, Fr.

SOURCE: Theoretica Chimica Acta (1975), 36(3), 231-5

CODEN: TCHAAM; ISSN: 0040-5744

DOCUMENT TYPE: Journal

LANGUAGE: English

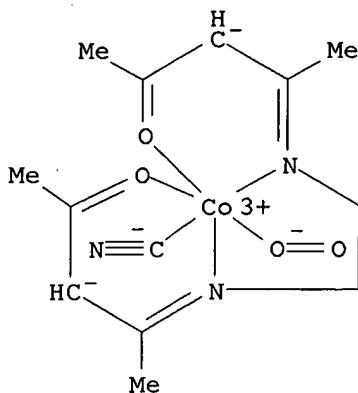
AB There are 4 possible electronic configurations for the ground-state of the dioxygen complex of $\text{Co}(\text{acacen})\text{L}$ (with the fifth ligand L = none, H_2O , imidazole, CN^- and CO). From ab-initio calcns. with a min. basis set, close energy values are indeed computed for these 4 configurations with the lowest one (ground-state configuration) corresponding to a charge-transfer configuration $\text{Co}(\text{III})-\text{O}_2$, in agreement with the results of ESR spectroscopy from the literature. The enthalpy of oxygenation is related to the σ -donor ability of the fifth ligand and to the ease of oxidn.

CC 65-2 (General Physical Chemistry)

IT 56295-08-0 56295-09-1 **56295-10-4** 56295-11-5 56315-25-4RL: PRP (Properties)
(electronic configuration of)IT **56295-10-4**RL: PRP (Properties)
(electronic configuration of)

RN 56295-10-4 HCPLUS

CN Cobaltate(1-), (cyano-C)[[4,4'-(1,2-ethanediyl)dinitrilo)bis[2-pentanone]](2-)-N,N',O,O' superoxido-, (OC-6-43)- (9CI) (CA INDEX NAME)



L20 ANSWER 7 OF 7 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1968:59699 HCAPLUS

DOCUMENT NUMBER: 68:59699

TITLE: Reduction of cobalt chelates of bis(acetylacetone)ethylenediamine and synthesis of organocobalt derivatives

AUTHOR(S): Costa, Giacomo; Mestroni, Giovanni

CORPORATE SOURCE: Univ. Trieste, Trieste, Italy

SOURCE: Journal of Organometallic Chemistry (1968), 11(2), 325-32

CODEN: JORCAI; ISSN: 0022-328X

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The redn. of the chelates of bis(acetylacetone)ethylenediamine dianion (BAE) and the prepn. of organometallic derivs. from the redn. products are reported. $\text{BrCo}(\text{BAE})\text{PPh}_3$ or $\text{Co}(\text{BAE})$ react with Na at 1% Na amalgam in anhyd. tetrahydrofuran (THF) to produce a suspension of a violet solid, $\text{NaCo}(\text{BAE})$ (I) in a green soln. Solns. of I in THF react with de-aerated water in an inert atm. to form deep red solns. contg. $\text{HCo}(\text{BAE})$ (II), which gradually discolor to give yellow solns. of $\text{Co}(\text{BAE})$. Solns. of I or II in THF react with appropriate electrophilic reagents, RX ($\text{X} = \text{Cl, Br, I}$), to form 6-coordinated $\text{RCo}(\text{BAE})\text{H}_2\text{O}$ ($\text{R} = \text{Me, Et, Pr, Br}(\text{CH}_2)_4, \text{CH}_2:\text{CH}$) or 5-coordinated complexes $\text{RCo}(\text{BAE})$ ($\text{R} = \text{MeCO}$). C_2H_2 or $\text{CH}_2:\text{CHCN}$ react with THF solns. of II to form $\text{CH}_2:\text{CHCo}(\text{BAE})\text{.cntdot.H}_2\text{O}$ or $\text{NCCH}_2\text{CH}_2\text{Co}(\text{BAE})$, resp. Treatment of I with the aliphatic geminal dihalide, $\text{Br}_2(\text{CH}_2)_4$ afforded $(\text{BAE})\text{Co}(\text{CH}_2)_4\text{Co}(\text{BAE})$. The 5-coordinated species $\text{RCo}(\text{BAE})$ reacted with L to form 6-coordinated $\text{RCo}(\text{BAE})\text{L}$ ($\text{L} = \text{pyridine, benzylamine, or benzimidazole}$). Ethylenediamine or piperazine (L') react with $\text{RCo}(\text{BAE})$ to form binuclear complexes with L' as a bridging ligand, $\text{RCo}(\text{BAE})\text{L}'\text{R}$ ($\text{R} = \text{Me, Ph}$). $\text{XCo}(\text{BAE})\text{L}$ or $\text{Co}(\text{BAE})\text{L}'\text{X}$ reacts with NaBH_4 to form $\text{Co}(\text{BAE})$ and with MeI to form $\text{MeCo}(\text{BAE})$. The near uv and visible absorption frequencies and intensities of BAE complexes of Co are tabulated.

CC 29 (Organometallic and Organometalloidal Compounds)

IT 17712-74-2P 18115-62-3P 18115-63-4P 18115-64-5P 18115-65-6P

18115-66-7P 18115-73-6P 18115-74-7P 18115-75-8P

18115-76-9P 18115-78-1P 18115-79-2P 18115-80-5P 18115-81-6P

18115-82-7P 18115-83-8P 18115-84-9P 18115-85-0P

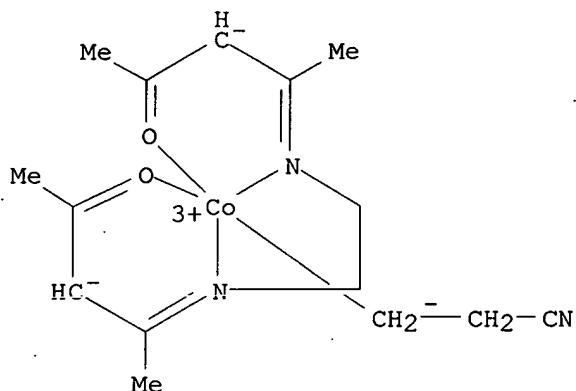
18115-86-1P 18115-87-2P 18115-88-3P 18115-89-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prep. of)

IT 18115-74-7P 18115-82-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 18115-74-7 HCPLUS

CN Cobalt, (2-cyanoethyl) [[4,4'-(ethylenedinitrilo)di-2-pentanonato] (2-)]-
(8CI) (CA INDEX NAME)

RN 18115-82-7 HCPLUS

CN Cobalt, (2-cyanoethyl) [[4,4'-(ethylenedinitrilo)di-2-pentanonato] (2-)] (pyridine)-, trans- (8CI) (CA INDEX NAME)

